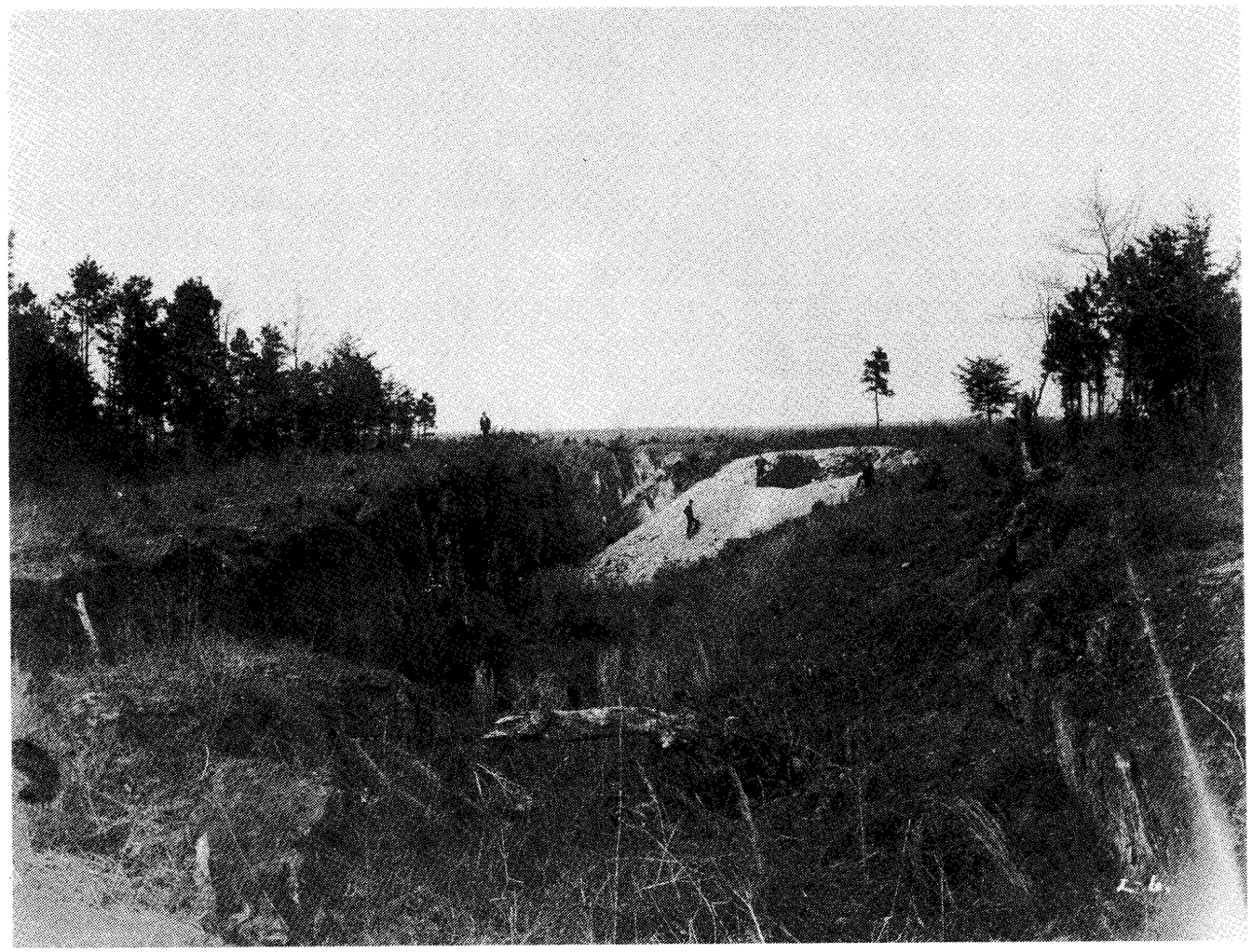
VIRGINIA DIVISION OF MINERAL RESOURCES PUBLICATION 147

METALLIC MINES, PROSPECTS, AND OCCURRENCES IN THE GOLD-PYRITE BELT OF VIRGINIA

David B. Spears and Michael L. Upchurch



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Stanley S. Johnson, State Geologist

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DEPARTMENT OF MINES, MINERALS, AND ENERGY
RICHMOND, VIRGINIA
O.Gene Dishner, Director

DIVISION OF MINERAL RESOURCES
CHARLOTTESVILLE, VIRGINIA
Stanley S. Johnson, State Geologist and Division Director
804-963-2308

STAFF
Kay T. Hasenauer, Executive Secretary
804-963-2309

ECONOMIC MINERALS AND ENERGY SECTION
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John D. Marr, Jr., Geologist Senior, 804-963-2321
Jack E. Nolde, Geologist Senior, 804-963-2318
Roy S. Sites, Geologist Senior, 804-963-2320
David B. Spears, Geologist Senior, 804-963-2319
Michael L. Upchurch, Geologist Senior, 804-963-2322

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Vernon N. Morris, Cartographic Drafter Assist., 804-963-2324
Gerald P. Wilkes, Geologist Senior, 804-963-2323

SALES: 804-293-5121 INFORMATION: 804-963-2306

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FRONT COVER: Large open-cut at the London and Virginia mine, Buckingham County, as photographed in 1939.

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METALLIC MINES, PROSPECTS, AND OCCURRENCES IN THE GOLD-PYRITE BELT OF VIRGINIA

David B. Spears and Michael L. Upchurch

INTRODUCTION

Ores of gold and other metals occur in a belt extending southwestward, from the Potomac River in northern Virginia to the Appomattox River in central Virginia, a distance of approximately 140 miles. Geologists investigating this area, early in the Twentieth Century, applied the name "gold-pyrite belt" for the principal minerals being extracted (Cline and others, 1921; Lonsdale, 1927; Park, 1936). Later workers recognized that the deposits were contained within a fault-bounded, Cambrian-age volcanic terrane that had been tectonically emplaced in the central Piedmont (Southwick and others, 1971; Pavlides and others, 1982; Duke, 1983; Conley, 1987).

Mines in the gold-pyrite belt produced iron, gold, copper, zinc, and sulfur (from pyrite). Mining occurred almost continuously from the early 1800s until the 1940s, when commercial gold production ceased in Virginia (Sweet, 1980). Since then, a number of mining and exploration companies have conducted geophysical surveys and exploratory drilling. New deposits have been discovered and delineated (Young, 1981; Duke, 1983), but large-scale mining operations have not been re-established. Two companies have permits to mine gold in the Virginia Piedmont, but reported production has been small. The gold-pyrite belt continues to attract recreational gold panners, and reports of modest success are common (Revis, 1996).

The purpose of this report is to provide an update on locations of all metallic mines, prospects, and occurrences on record in the files of the Division of Mineral Resources for the gold-pyrite belt of Virginia. Although the Division has previously published location data for many of these mines (Luttrell, 1966; Sweet, 1980; Sweet and Trimble, 1983), field work in recent years has improved the accuracy of some locations and resulted in the discovery of new ones. Data for 492 locations, 95 of which are previously unpublished, are presented. This information will be of interest to resource exploration and development companies, land-use planning and zoning authorities, recreational mineral collectors, and historical societies.

Each of the locations shown in this report has been field-checked by Division personnel and plotted on 1:24,000 scale topographic maps. Points for which exact locations were unavailable have not been included (e.g., the reported "Lost Dutchman Mine" in Buckingham County). The locations were digitized using GSDIG, a public-domain geodetic point digitizing utility for DOS computers (Selner and Taylor, 1992). Maps were compiled from these points using GSMAP 8.0 and related utilities (Selner and Taylor, 1992).

GEOLOGIC SETTING

The gold-pyrite belt lies in the Piedmont physiographic province, a gently rolling, dissected upland bounded by the Blue Ridge province to the west and the Atlantic Coastal Plain to the east. The Piedmont is geologically complex, consisting of a number of fault-bounded terranes that were accreted to the eastern edge of North America during the Paleozoic Era (Virginia Division of Mineral Resources, 1993; Glover, 1989).

Most of the metallic deposits considered in this report are contained within the central Virginia volcanic-plutonic belt. This is a northeast-trending zone of metasedimentary, metavolcanic, and metaplutonic rocks that ranges in width from about nine miles in northern Virginia to about sixteen miles in south-central Virginia. Northeastward, the volcanic-plutonic belt is covered by Cretaceous and younger sedimentary deposits of the Atlantic Coastal Plain. The belt has been interpreted to be a volcanic arc of Cambrian age (Pavlides, 1981). This terrane includes the Chopawamsic Formation (Southwick and others, 1971), the Ta River Metamorphic Suite (Pavlides, 1981), and the Hatcher Complex (Brown, 1969). These rocks are overlain unconformably by slates and schists of the Ordovician-age Arvonia and Quantico Formations (Smith and others, 1964; Brown, 1969).

The central Virginia volcanic-plutonic belt is bounded on the northwest and southeast by southeast-dipping, low-angle faults (Pratt and others, 1988). On the southeast, rocks of the relatively metal-barren Goochland terrane and an unnamed granite and gneiss terrane of the central Piedmont are in fault contact with the volcanic-plutonic belt. This fault zone coincides with the Spotsylvania lineament of Neuschel (1970), the Lakeside mylonite of Brown (1986), and the Ca Ira melange of Marr (1991). The western boundary of the volcanic-plutonic belt is a fault zone which places rocks of the Chopawamsic formation in contact with a regionally extensive zone of ophiolitic melange. This zone includes the melange units of Drake and Morgan (1981), the Mine Run Complex of Pavlides (1990) and the Shores Complex of Brown (1986). A considerable number of mines traditionally considered to lie within the gold-pyrite belt (e.g., the Anaconda, Ford, and Lightfoot copper mines in Buckingham County in central Virginia, and all the gold mines in the Richardsville quadrangle in Fauquier County, in northern Virginia), occur in this melange zone. This zone has been interpreted as the "Taconic suture", along which the volcanic arc was emplaced against the eastern edge of North America during a middle- to late-Ordovician orogenic event (Glover, 1989).

TYPES OF DEPOSITS AND THEIR ORIGIN

Modern metallogenic studies of the gold-pyrite belt attribute the metallic mineralization to submarine volcanic-hydrothermal processes occurring relatively late in a volcanic cycle (Good, 1981; Duke, 1983; Mangan and others, 1983; Gleason, 1987). In this model, hot, mineral-rich waters are generated within a submarine volcanic system. These fluids circulate through the volcanic pile, becoming enriched in silica, metals, and sulfur. The brines eventually rise toward the seafloor, encountering conditions of lower temperature and higher pH. Precipitation occurs in fractures or in pores in the surrounding volcanic rock. Saturated fluids escaping from seafloor vents rapidly precipitate.

In the gold-pyrite belt of Virginia, this process appears to have occurred in stages. Pyritic, base- and precious-metal-bearing massive sulfides occur in narrow, linear zones (Craig and others, 1978), interpreted to have formed in the late stages of Chopawamsic volcanism (Duke, 1983). Above the massive sulfides, gold-bearing, silica- and iron- rich rocks occur near the very top of the volcanic sequence, close to the contact with the overlying Arvonia and Quantico Formations. These are interpreted to be very late stage volcanogenic cherts (Duke, 1983; Mangan and others, 1983). This sequence is common in volcanogenic massive sulfide deposits worldwide (Hutchinson, 1973). The association of a massive-sulfide-bearing volcanic arc with an adjacent, metal-bearing ophiolitic melange is also typical (Mitchell and Bell, 1973).

During Paleozoic regional metamorphism, some remobilization occurred. Metal-bearing veins formed in tectonic fractures, and ore bodies were probably thickened at fold hinges and thinned on fold limbs (Conley, 1987). Chemical and mechanical weathering in relatively recent geologic history resulted in the formation of surficial gossans and placer deposits.

USING THE MAPS AND TABLES

An overview map of the gold-pyrite belt is presented in Plate I. Point locations are shown at 1:250,000 scale, color-coded by principal commodity, with county and 7.5-minute quadrangle boundaries. Quadrangles are identified by four-character quadrangle numbers (e.g., "152D"). Quadrangle names appear in the map key under "7.5-MINUTE QUADRANGLES".

Individual 7.5-minute quadrangle maps at 1:50,000 scale show the location of each point with a symbol signifying the type of feature at that location (e.g., "mine shaft", "mine adit", "prospect pit"). Definitions of these terms can be found in the "Glossary" below. Each point is labelled with a three-digit reference number (e.g., "201") followed by a principal commodity abbreviation in parentheses (e.g., "(Au)"). An explanation of symbols and principal commodity abbreviations is given Appendix B. The 1:50,000-scale maps, printed on topographic bases, are presented in Appendix B.

The three-digit reference number shown for each point, preceded by the quadrangle number and a hyphen (e.g., "152D-201"), is the eight-character point identification number in the Mineral Resources of Virginia (MRV) database. The MRV database contains location and identification infor-

mation about each point, as well as literature references that provide further descriptive, geological, and historical data. Selected information from the MRV database is presented in Tables 1 through 33, which accompany the 1:50,000-scale maps. The first column of the tables contains the point identification number. The second and third columns contain the latitude and longitude, respectively, of each point in decimal degrees. Geodetic convention dictates that positive latitudes denote northern hemisphere (degrees north of the equator), while negative longitudes denote western hemisphere (degrees west of the Prime Meridian). The fourth and fifth columns contain the county and 7.5-minute quadrangle name, respectively. The sixth column, labelled "PRINCIPAL COMMODITY", represents the most abundant commodity produced from that mine, or, in the case of prospects, the most likely commodity for which that site was explored. The seventh column contains the type of mine or prospect found at that point. The eighth column is the name by which the mine or prospect is best known. It should be noted that many of these mines had more than one name during their history, and may have produced smaller quantities of commodities other than the principal commodity. This information may be found by referring to the literature references listed in the ninth column. The numbers in this column are keyed to Appendix A, a numbered list of literature references.

GLOSSARY

(some terms modified from Bates and Jackson, 1987)

adit: a horizontal passage from the surface into a mine; sometimes called a tunnel.
occurrence: a location at which the presence of a mineral has been documented.
open pit: a surficial mine in which the valuable rock is exposed by removal of overburden.
placer mine: a mine exploiting a placer; a mineral deposit formed by mechanical concentration of mineral particles from weathered debris. Placers are typically sand and gravel accumulations in stream channels.
prospect pit: a surficial cut made in exploration for mineral deposits; distinct from a mine in that it is nonproducing.
shaft: a vertical or steeply inclined excavation through which a mine is worked.

REFERENCES CITED

Bates, R.L., and Jackson, J.A. (editors), 1987, Glossary of Geology: American Geological Institute, 788 p.

Brown, W.R., 1969, Geology of the Dillwyn quadrangle, Virginia: Virginia Division of Mineral Resources Report of Investigations 10, 77 p.

Brown, W.R., 1986, Shores complex and melange in the central Virginia Piedmont: Geological Society of America Centennial Field Guide, v. 6, p. 209-214.

Cline, J.H., Watson, T.L., and Wright, F.J., 1921, A geologic map of the pyrite-gold belt in Louisa and Spotsylvania counties, Virginia: Virginia Geological Survey (scale 1 inch = 1 mile).

Conley, J.F., 1987, Relationships of structure to massive sulfide deposits in the Chopawamsic Formation of central Virginia, *in* Contributions to Virginia Geology-V: Virginia Division of Mineral Resources Publication 74, p. 19-32.

Craig, J.R., Miller, J.W., Cox, L.J., and Kazda, R.F., 1978, Ores of the Mineral district: U.S. Geological Survey Open-File Report 78-1068, p. 26-31.

Drake, A.A., Jr., and Morgan, B.A., 1981, The Piney Branch Complex--a metamorphosed fragment of the Central Appalachian ophiolite in northern Virginia: American Journal of Science, v. 281, p. 484-508.

Duke, N.A., 1983, A metallogenic study of the central Virginia gold-pyrite belt [Ph.D. dissert.]: Winnipeg, University of Manitoba, 342 p.

Gleason, R.J., 1987, Gold mineralization models for the Virginia gold-pyrite belt, U.S.A.(abstract): Geological Society of America Abstracts with Programs, v. 17, p. 593.

Glover, Lynn, III, 1989, Tectonics of the Virginia Blue Ridge and Piedmont, *in* Metamorphism and Tectonics of Eastern and Central North America, 28th International Geological Congress Field Trip Guidebook T363: American Geophysical Union, Washington, D.C., 59 p.

Good, R.S., 1981, Geochemical exploration and sulfide mineralization, *in* Geologic investigations in the Willis Mountain and Andersonville quadrangles, Virginia: Virginia Division of Mineral Resources Publication 29, p. 48-69.

Hutchinson, R.W., 1973, Volcanogenic sulfide deposits and their metallogenic significance: Economic Geology, v. 68, n. 8, p. 1223-1246.

Lonsdale, J.T., 1927, Geology of the gold-pyrite belt of the northeastern Piedmont, Virginia: Virginia Geological Survey Bulletin 30, 110 p.

Luttrell, G.W., 1966, Base- and precious-metal and related ore deposits of Virginia: Virginia Division of Mineral Resources Mineral Resources Report 7, 167 p.

Mangan, M.T., Craig, J.R., and Rimstidt, J.D., 1983, Submarine exhalative gold mineralization at the London-Virginia Mine, Buckingham County, Virginia(abstract): Geological Society of America Abstracts with Programs, v. 15, p. 634.

Marr, J.D., Jr., 1991, The Ca Ira melange--indicator of a major suture in the Piedmont of Virginia (abstract): Geological Society of America Abstracts with Programs, v. 23, n. 1, p. 62.

Mitchell, A.H., and Bell, J.D., 1973, Island-arc evolution and related mineral deposits: Journal of Geology, v. 81, p. 381-405.

Neuschel, S.K., 1970, Correlation of aeromagnetics and aeroradioactivity with lithology in the Spotsylvania area, Virginia: Geological Society of America Bulletin, v. 8, n. 12, p. 3575-3582.

Park, C.F., Jr., 1936, Preliminary report on gold deposits of the Virginia Piedmont: Virginia Geological Survey Bulletin 44, 42 p.

Pavlides, Louis, 1981, The central Virginia volcanic-plutonic belt; An island arc of Cambrian (?) age: U.S. Geological Survey Professional Paper 1231-A, 34 p.

Pavlides, Louis, 1990, Geology of part of the northern Virginia Piedmont: U.S. Geological Survey Open-File Report 90-548.

Pavlides, L., Gair, J.E., and Cranford, S.L., 1982, Central Virginia volcanic-plutonic belt as host for massive sulfide deposits: Economic Geology , v. 77, n. 2, p. 233-272.

Pratt, T.L., Costain, J.K., Coruh, C., and Glover, Lynn, III, 1988, A geophysical study of the Earth's crust in central Virginia with implications for lower crustal reflections and Appalachian structure: Journal of Geophysical Research, v. 93B, p. 6649-6674.

Revis, B.G., 1996, The new Virginia gold rush: Lost Treasure Magazine, December 1996, p. 47-49.

Selner, G.I., and Taylor, R.B., 1992, System 8. GSMAP, GSMEDIT, GSMUTIL, GSPOST, GSDIG and other programs version 8, for the IBM PC and compatible microcomputers, to assist workers in the earth sciences: U.S. Geological Survey Open-File Report 92-217, 217 p.

Smith, J.W., Milici, R.C., and Greenberg, S.S., 1964, Geology and mineral resources of Fluvanna County: Virginia Division of Mineral Resources Bulletin 79, 62 p.

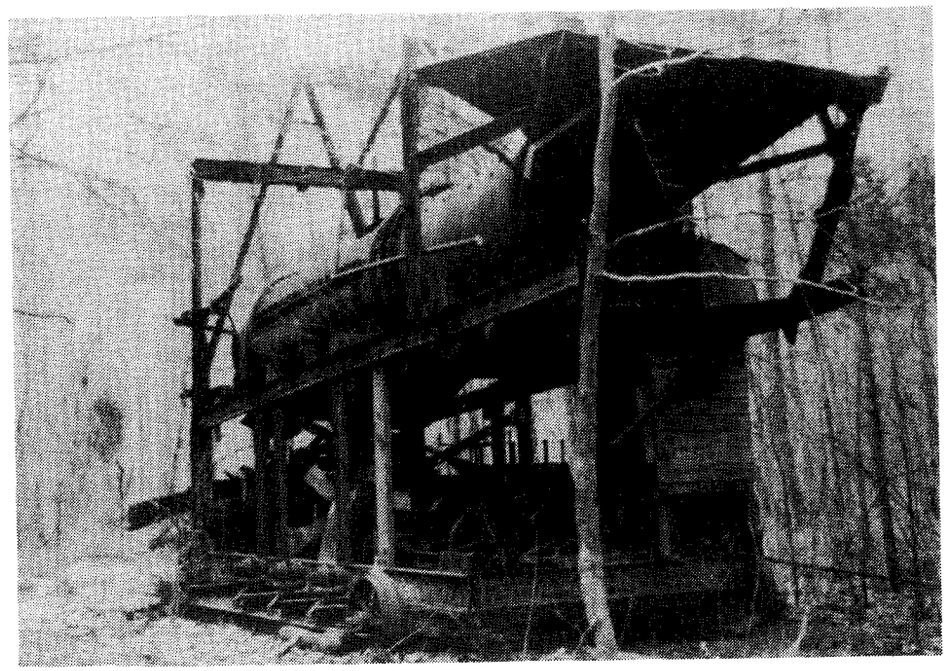
Southwick, D.L., Reed, J.C., Jr., and Mixon, R.B., 1971, The Chopawamsic Formation— a new stratigraphic unit in the Piedmont of northeastern Virginia: U.S. Geological Survey Bulletin 1324-D, p. D1-D11.

Sweet, P.C., 1980, Gold in Virginia: Virginia Division of Mineral Resources Publication 19, 77 p.

Sweet, P.C., and Trimble, D., 1983, Virginia gold-resource data: Virginia Division of Mineral Resources Publication 45, 196 p.

Virginia Division of Mineral Resources, 1993, Geologic Map of Virginia: Virginia Division of Mineral Resources, scale 1:500,000.

Young, R.S., 1981, Sulfide zones, *in* Geologic investigations in the Willis Mountain and Andersonville Quadrangles, Virginia: Virginia Division of Mineral Resources Publication 29, p. 17-47.



Old washer located in the area of the Bertha and Edith mine (from Sweet, 1980).

Appendix A

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2. Bass, C.E., 1940, The Vaucluse Gold Mine, Orange County, Virginia: Economic Geology, v. 35, p. 79-91.
3. Brown, C.B., 1937, Outline of the geology and mineral resources of Goochland County, Virginia: Virginia Geological Survey Bulletin 48, 68 p.
4. Brown, W.R., 1969, Geology of the Dillwyn quadrangle, Virginia: Virginia Division of Mineral Resources Report of Investigations 10, 75 p.
5. Cline, J.H., Watson, T.L., and Wright, F.J., 1921, A geologic map of the gold-pyrite belt in Louisa and Spotsylvania Counties, Virginia: Virginia Geological Survey (scale 1 inch = 1 mile).
6. Cox, L.J., 1979, Mineralogy and petrogenesis of the Arminius deposit, Louisa County, Virginia [M.S. thesis], Blacksburg, Virginia Polytechnic Institute and State University.
7. Credner, H., 1868, Report of explorations on the gold fields of Virginia and North Carolina: American Journal of Mining, ser. 2, v. 6, p. 361, 371, 393, 406-407.
8. Credner, H., 1869, Report of explorations on the gold fields of Virginia and North Carolina: American Journal of Mining, ser. 2, v. 7, p. 9, 26-27, 42-43, 58, 72-73, 105.
9. Darter, O.H., 1957, Colonial Fredericksburg and neighborhood in perspective: New York, Twayne Publishers, 333 p.
10. Dunlop, J.P., 1916, Gold, silver, copper, lead and zinc in the eastern United States in 1914, *in* Mineral Resources of the United States, Part 1-Metals: U.S. Geological Survey Mines Report for 1914, p. 139-163.
11. Dunlop, J.P., 1924, Gold, silver, copper, lead and zinc in the eastern United States in 1921, *in* Mineral Resources of the United States, 1921, Part 1-Metals: U.S. Geological Survey, p. 7-14.
12. Dunlop, J.P. and Meyer, H.M., 1936, Gold, silver, copper, lead and zinc in the eastern and central states, *in* Minerals yearbook, 1936: U.S. Bureau of Mines, p. 281-296.
13. Flanagan, M.C., 1930, "Thar's gold in them thar hills": Times-Dispatch, Richmond, Virginia, November 16, 1930.
14. Fontaine, W.M., 1882, Notes on the sulphuret deposits of Virginia: The Virginias, v. 3, n.10, p. 154-155.
15. Gair, J.E. (ed.), 1978, Massive sulfides of Virginia field trip guidebook: International Geological Correlation Programme, Project No. 60, 112 p.
16. Gallaher, R., 1976, Gold fever cooled in Culpeper: Times-Dispatch, Richmond, Virginia, March 28, 1976.
17. Good, R.S., Fordham, O.M., and Halladay, C.R., 1977, Geochemical reconnaissance for gold in the Caledonia and Pendleton quadrangles in the Piedmont of central Virginia: Virginia Minerals, v. 23, n. 2, p. 13-22.
18. Grosh, W.A., 1949, Investigation of Valzinco lead-zinc mine, Spotsylvania County, Virginia: U.S. Bureau of Mines Report of Investigations 4403, 7 p.
19. Hammett, A.B.J., 1966, The history of Gold: Kerrville, Texas, Brasswell Printing Co., 107 p.
20. Hickman, R.C., 1947, Pyrites, Mineral, Louisa County, Virginia: U.S. Bureau of Mines Report of Investigations 4116, 3 p.
21. Hodder, R.W., Kazda, R.F., and Bojtos, P., 1977, An example of base metal sulfide deposits from within a turbidite succession of the Virginia Piedmont (abs.): Mining Engineering, v. 29, n. 1, p. 83.
22. Hotchkiss, J., 1881, Gold mining in Virginia: The Virginias, v. 2, n. 12.
23. Hotchkiss, J., 1884, The Knapp Gold Mine: The Virginias, v. 5, n. 8.
24. Johnson, P.M., 1964, Geology and groundwater resources of Washington, D.C. and vicinity: U.S. Geological Survey Water Supply Paper 1776, 97 p.
25. Katz, A.S., 1961, The mineralogy of the Sulfur Mine, Mineral, Virginia [M.S. thesis]: Charlottesville, University of Virginia.
26. Kinkel, A.R., Jr., 1967, The Ore Knob copper deposit, North Carolina, and other massive sulfide deposits of the Appalachians: U.S. Geological Survey Professional Paper 558, 58 p.
27. Lonsdale, J.T., 1927, Geology of the gold-pyrite belt of the northeastern Piedmont, Virginia: Virginia Geological Survey Bulletin 30, 110 p.

Selner, G.I., and Taylor, R.B., 1992, System 8. GSMAP, GSMEDIT, GSMUTIL, GSPOST, GSDIG and other programs version 8, for the IBM PC and compatible microcomputers, to assist workers in the earth sciences: U.S. Geological Survey Open-File Report 92-217, 217 p.

Smith, J.W., Milici, R.C., and Greenberg, S.S., 1964, Geology and mineral resources of Fluvanna County: Virginia Division of Mineral Resources Bulletin 79, 62 p.

Southwick, D.L., Reed, J.C., Jr., and Mixon, R.B., 1971, The Chopawamsic Formation— a new stratigraphic unit in the Piedmont of northeastern Virginia: U.S. Geological Survey Bulletin 1324-D, p. D1-D11.

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Sweet, P.C., and Trimble, D., 1983, Virginia gold-resource data: Virginia Division of Mineral Resources Publication 45, 196 p.

Virginia Division of Mineral Resources, 1993, Geologic Map of Virginia: Virginia Division of Mineral Resources, scale 1:500,000.

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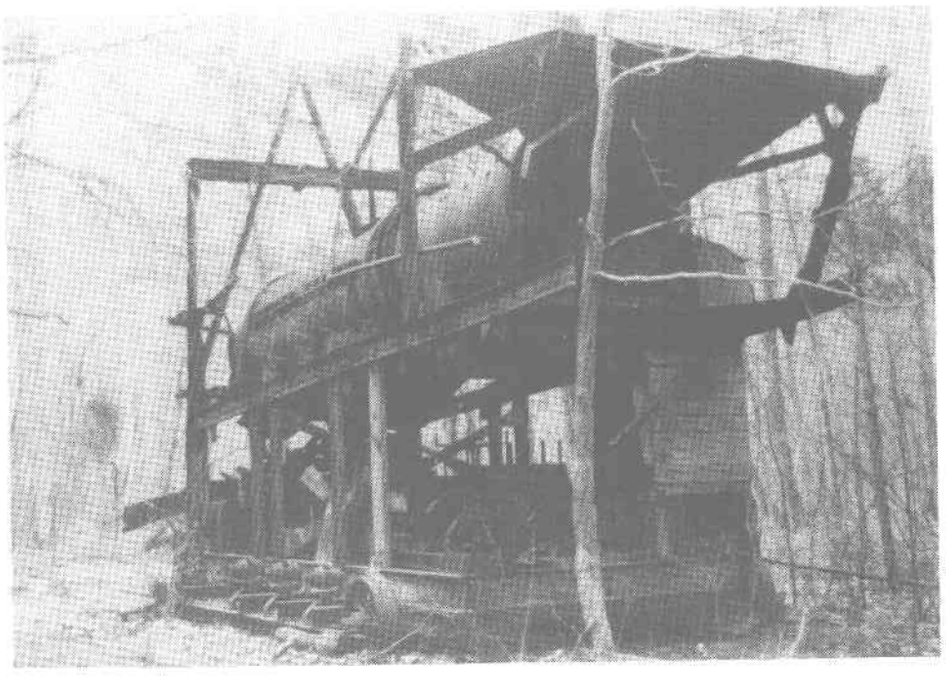

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3. Brown, C.B., 1937, Outline of the geology and mineral resources of Goochland County, Virginia: Virginia Geological Survey Bulletin 48, 68 p.
4. Brown, W.R., 1969, Geology of the Dillwyn quadrangle, Virginia: Virginia Division of Mineral Resources Report of Investigations 10, 75 p.
5. Cline, J.H., Watson, T.L., and Wright, F.J., 1921, A geologic map of the gold-pyrite belt in Louisa and Spotsylvania Counties, Virginia: Virginia Geological Survey (scale 1 inch = 1 mile).
6. Cox, L.J., 1979, Mineralogy and petrogenesis of the Arminius deposit, Louisa County, Virginia [M.S. thesis], Blacksburg, Virginia Polytechnic Institute and State University.
7. Credner, H., 1868, Report of explorations on the gold fields of Virginia and North Carolina: American Journal of Mining, ser. 2, v. 6, p. 361, 371, 393, 406-407.
8. Credner, H., 1869, Report of explorations on the gold fields of Virginia and North Carolina: American Journal of Mining, ser. 2, v. 7, p. 9, 26-27, 42-43, 58, 72-73, 105.
9. Darter, O.H., 1957, Colonial Fredericksburg and neighborhood in perspective: New York, Twayne Publishers, 333 p.
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12. Dunlop, J.P. and Meyer, H.M., 1936, Gold, silver, copper, lead and zinc in the eastern and central states, *in* Minerals yearbook, 1936: U.S. Bureau of Mines, p. 281-296.
13. Flanagan, M.C., 1930, "Thar's gold in them thar hills": Times-Dispatch, Richmond, Virginia, November 16, 1930.
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15. Gair, J.E. (ed.), 1978, Massive sulfides of Virginia field trip guidebook: International Geological Correlation Programme, Project No. 60, 112 p.
16. Gallaher, R., 1976, Gold fever cooled in Culpeper: Times-Dispatch, Richmond, Virginia, March 28, 1976.
17. Good, R.S., Fordham, O.M., and Halladay, C.R., 1977, Geochemical reconnaissance for gold in the Caledonia and Pendleton quadrangles in the Piedmont of central Virginia: Virginia Minerals, v. 23, n. 2, p. 13-22.
18. Grosh, W.A., 1949, Investigation of Valzinco lead-zinc mine, Spotsylvania County, Virginia: U.S. Bureau of Mines Report of Investigations 4403, 7 p.
19. Hammett, A.B.J., 1966, The history of Gold: Kerrville, Texas, Brasswell Printing Co., 107 p.
20. Hickman, R.C., 1947, Pyrites, Mineral, Louisa County, Virginia: U.S. Bureau of Mines Report of Investigations 4116, 3 p.
21. Hodder, R.W., Kazda, R.F., and Bojtos, P., 1977, An example of base metal sulfide deposits from within a turbidite succession of the Virginia Piedmont (abs.): Mining Engineering, v. 29, n. 1, p. 83.
22. Hotchkiss, J., 1881, Gold mining in Virginia: The Virginias, v. 2, n. 12.
23. Hotchkiss, J., 1884, The Knapp Gold Mine: The Virginias, v. 5, n. 8.
24. Johnson, P.M., 1964, Geology and groundwater resources of Washington, D.C. and vicinity: U.S. Geological Survey Water Supply Paper 1776, 97 p.
25. Katz, A.S., 1961, The mineralogy of the Sulfur Mine, Mineral, Virginia [M.S. thesis]: Charlottesville, University of Virginia.
26. Kinkel, A.R., Jr., 1967, The Ore Knob copper deposit, North Carolina, and other massive sulfide deposits of the Appalachians: U.S. Geological Survey Professional Paper 558, 58 p.
27. Lonsdale, J.T., 1927, Geology of the gold-pyrite belt of the northeastern Piedmont, Virginia: Virginia Geological Survey Bulletin 30, 110 p.

28. Luttrell, G.W., 1966, Base- and precious-metal and related ore deposits of Virginia: Virginia Division of Mineral Resources Mineral Resources Report 7, 167 p.
29. Mangan, M., 1983, Gold-silver mineralization at the London-Virginia mine, Buckingham County, Virginia [M.S. thesis]: Blacksburg, Virginia Polytechnic Institute and State University, 65 p.
32. Marr, J.D., Jr., 1980a, Geology of the Willis Mountain quadrangle: Virginia Division of Mineral Resources Publication 25.
31. Marr, J.D., Jr., 1980b, Geology of the Andersonville quadrangle: Virginia Division of Mineral Resources Publication 26.
32. Maury, M.F., 1837, Notice of the gold veins of the United States' Mine, near Fredericksburg, Virginia: American Journal of Science, v. 32, n. 1, p. 325-330.
33. McCaskey, H.D., 1907, The southern Appalachian states, *in* Mineral Resources of the United States, calendar year 1906: U.S. Geological Survey, p. 323-333.
34. McCaskey, H.D., 1911, Gold, silver, copper, lead, and zinc in the eastern states in 1910, *in* Mineral Resources of the United States, calendar year 1910, part 1, metals: U.S. Geological Survey, p. 675-691.
35. McCaskey, H.D., 1912, Gold, silver, copper, lead, and zinc in the eastern states in 1911, *in* Mineral Resources of the United States, calendar year 1911, part 1, metals: U.S. Geological Survey, p. 873-888.
36. Miller, J.W., 1978, The ore mineralogy of the Cofer property, Louisa County, Virginia: a volcanogenic massive sulfide deposit [unpublished M.S. thesis]: Blacksburg, Virginia Polytechnic Institute and State University.
37. Miller, J.W., Craig, J.R., and Kazda, R.F., 1978, Volcanogenic sulfides of the Mineral district, Louisa County, Virginia (abs.): Geological Society of America Abstracts with Programs, v. 10, n. 7, p. 457.
38. Miller, J.W., Craig, J.R., and Kazda, R.F., 1979, Metamorphosed volcanogenic ores of the Cofer deposit, Mineral district, Louisa Co., Virginia (abs.): Geological Society of America Abstracts with Programs, v. 11, n. 4, p. 205-206.
39. Morrill, P., 1972, Virginia mines and minerals: Part 2: Rocks and Minerals, v. 47, n. 7-8, p. 435-444.
40. Morton, J.H., 1877, The gold mines of Fauquier County, Virginia: Engineering & Mining Journal, v. 24, p. 345.
41. Pardee, J.T., and Park, C.F., Jr., 1948, Gold deposits of the southern Piedmont: U.S. Geological Survey Professional Paper 213, 152 p.
42. Park, C.F., Jr., 1936, Preliminary report on gold deposits of the Virginia Piedmont: Virginia Geological Survey Bulletin 44, 42 p.
43. Parker, E.W., 1893, Sulphur, *in* Mineral Resources of the United States, Calendar Year 1891: U.S. Geological Survey, p. 564-571.
44. Pavlides, L., Gair, J.E., and Cranford, S.L., 1982, Central Virginia volcanic-plutonic belt as host for massive sulfide deposits: Economic Geology, v. 77, n. 2, p. 233-272.
45. Phalen, W.C., 1911, Sulphur and Pyrite, *in* Mineral Resources of the United States, Calendar Year 1909, part 2, non-metals: U.S. Geological Survey, p. 685-696.
46. Poole, J.L., 1973, Iron sulfide mines in Virginia: Virginia Minerals, v. 19, n. 3, p. 29-33.
47. Poole, J.L., 1974, Notes on some abandoned copper, lead and zinc mines in the Piedmont of Virginia: Virginia Minerals, v. 20, n. 2, p. 9-14.
48. Scheel, E.M., 1975, Culpeper County historical map.
49. Silliman, B., 1837, Remarks on some of the gold mines, and on parts of the gold region of Virginia: American Journal of Science and Arts, ser. I, v. 32, p. 98-130.
50. Smith, J.W., Milici, R.C., and Greenburg, S.S., 1964, Geology and Mineral Resources of Fluvanna County: Virginia Division of Mineral Resources Bulletin 79, 62 p.
51. Sweet, P.C., 1971, Gold mines and prospects in Virginia: Virginia Minerals, v. 17, n. 3, p. 25-33.
52. Sweet, P.C., 1975, Road log to some abandoned gold mines of the Gold-Pyrite Belt, northeastern Virginia: Virginia Minerals, v. 21, n. 1, p. 1-9.
53. Sweet, P.C., 1980, Gold in Virginia: Virginia Division of Mineral Resources Publication 19, 77 p.
54. Sweet, P.C., 1991, Precious-metal mines, prospects, and occurrences in Virginia - an update: Virginia Minerals, v. 37, n. 1, p. 1-6.
55. Sweet, P.C., 1995, Update on unreported occurrences of gold-silver in Virginia: Virginia Minerals, v. 41, n. 2, p. 1-16.
56. Sweet, P.C., Good, R.S., Lovett, J.A., Cambell, E.V.M., Wilkes, G.P., and Myers, L.L., 1989, Copper, lead, and zinc resources in Virginia: Virginia Division of Mineral Resources Publication 93, 185 p.
57. Sweet, P.C., and Trimble, D., 1982, Gold occurrences in Virginia, an update: Virginia Minerals, v. 28, n. 4, p. 33-41.
58. Sweet, P.C., and Trimble, D., 1983, Virginia gold-resource data: Virginia Division of Mineral Resources Publication 45, 196 p.
59. Taber, S., 1913, Geology of the gold belt in the James River Basin, Virginia: Virginia Geological Survey Bulletin 7, p. 208-234.
60. Taylor, R.C., and Hayes, J.L., 1850, Reports on the Woodville Gold Mine: unpublished report, 15 p.
61. Ulke, T., 1937, Notes on a new gold mine and floatation mill near Washington, D.C.: Rocks and Minerals, v. 12, p. 371.
62. Ulke, T., 1939, Gold mining, past and present, near Washington, D.C.: Rocks and Minerals, v. 14, n. 10, p. 299-305.
63. Watson, T.L., 1907, Mineral Resources of Virginia: Virginia Jamestown Exposition Commission, Lynchburg, Virginia, 618 p.
64. Watson, T.L., 1920, Sulphur, pyrites, and sulphuric acid, *in* Smith, P.S. (ed.), Mineral Resources of the United States, 1917, part 2, nonmetals: U.S. Geological Survey, p. 53-55

Roasting stack at the Wilderness Run tract in Orange County (from Sweet, 1980).

28. Luttrell, G.W., 1966, Base- and precious-metal and related ore deposits of Virginia: Virginia Division of Mineral Resources Mineral Resources Report 7, 167 p.
29. Mangan, M., 1983, Gold-silver mineralization at the London-Virginia mine, Buckingham County, Virginia [M.S. thesis]: Blacksburg, Virginia Polytechnic Institute and State University, 65 p.
32. Marr, J.D., Jr., 1980a, Geology of the Willis Mountain quadrangle: Virginia Division of Mineral Resources Publication 25.
31. Marr, J.D., Jr., 1980b, Geology of the Andersonville quadrangle: Virginia Division of Mineral Resources Publication 26.
32. Maury, M.F., 1837, Notice of the gold veins of the United States' Mine, near Fredericksburg, Virginia: American Journal of Science, v. 32, n. 1, p. 325-330.
33. McCaskey, H.D., 1907, The southern Appalachian states, *in* Mineral Resources of the United States, calendar year 1906: U.S. Geological Survey, p. 323-333.
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36. Miller, J.W., 1978, The ore mineralogy of the Cofer property, Louisa County, Virginia: a volcanogenic massive sulfide deposit [unpublished M.S. thesis]: Blacksburg, Virginia Polytechnic Institute and State University.
37. Miller, J.W., Craig, J.R., and Kazda, R.F., 1978, Volcanogenic sulfides of the Mineral district, Louisa County, Virginia (abs.): Geological Society of America Abstracts with Programs, v. 10, n. 7, p. 457.
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42. Park, C.F., Jr., 1936, Preliminary report on gold deposits of the Virginia Piedmont: Virginia Geological Survey Bulletin 44, 42 p.
43. Parker, E.W., 1893, Sulphur, *in* Mineral Resources of the United States, Calendar Year 1891: U.S. Geological Survey, p. 564-571.
44. Pavlides, L., Gair, J.E., and Cranford, S.L., 1982, Central Virginia volcanic-plutonic belt as host for massive sulfide deposits: Economic Geology, v. 77, n. 2, p. 233-272.
45. Phalen, W.C., 1911, Sulphur and Pyrite, *in* Mineral Resources of the United States, Calendar Year 1909, part 2, non-metals: U.S. Geological Survey, p. 685-696.
46. Poole, J.L., 1973, Iron sulfide mines in Virginia: Virginia Minerals, v. 19, n. 3, p. 29-33.
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50. Smith, J.W., Milici, R.C., and Greenburg, S.S., 1964, Geology and Mineral Resources of Fluvanna County: Virginia Division of Mineral Resources Bulletin 79, 62 p.
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56. Sweet, P.C., Good, R.S., Lovett, J.A., Cambell, E.V.M., Wilkes, G.P., and Myers, L.L., 1989, Copper, lead, and zinc resources in Virginia: Virginia Division of Mineral Resources Publication 93, 185 p.
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60. Taylor, R.C., and Hayes, J.L., 1850, Reports on the Woodville Gold Mine: unpublished report, 15 p.
61. Ulke, T., 1937, Notes on a new gold mine and floatation mill near Washington, D.C.: Rocks and Minerals, v. 12, p. 371.
62. Ulke, T., 1939, Gold mining, past and present, near Washington, D.C.: Rocks and Minerals, v. 14, n. 10, p. 299-305.
63. Watson, T.L., 1907, Mineral Resources of Virginia: Virginia Jamestown Exposition Commission, Lynchburg, Virginia, 618 p.
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Roasting stack at the Wilderness Run tract in Orange County (from Sweet, 1980).

Southwest end of open cut at Walnut Creek mine, Organe County (from Sweet and Trimble, 1982).

Washer of Lucky Hundred Mineral and Mining Corporation, Dickey tract of Grasty mine area, 1957 (from Sweet and Trimble, 1982).

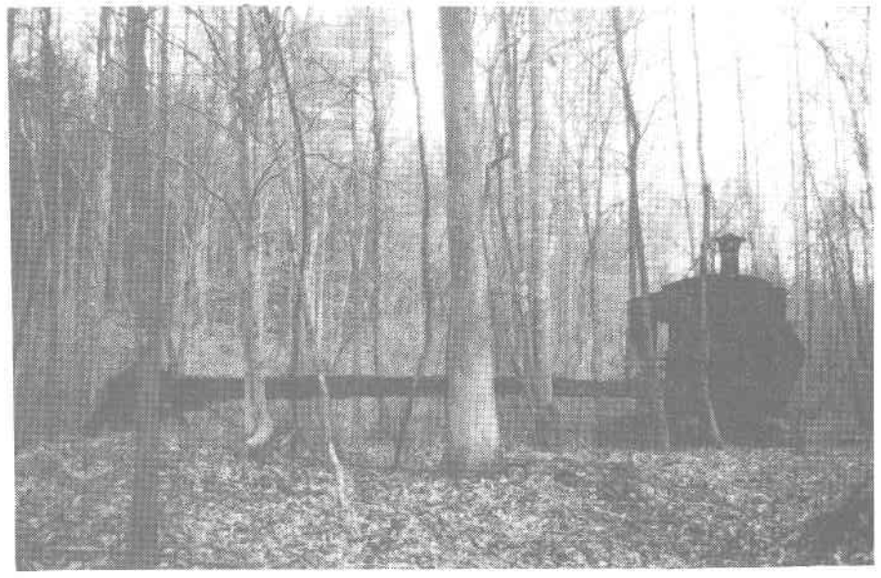
"Hornet ball" used for washing gold ore, near reclaimed plant site of the Old Liberty gold mine, Fauquier County (photograph by P. C. Sweet, 1976).

Old power shovel located in the area of the Bertha and Edith mine (from Sweet, 1980).

Southwest end of open cut at Walnut Creek mine, Organe County (from Sweet and Trimble, 1982).

Washer of Lucky Hundred Mineral and Mining Corporation, Dickey tract of Grasty mine area, 1957 (from Sweet and Trimble, 1982).

"Hornet ball" used for washing gold ore, near reclaimed plant site of the Old Liberty gold mine, Fauquier County (photograph by P. C. Sweet, 1976).



Old power shovel located in the area of the Bertha and Edith mine (from Sweet, 1980).

Appendix B

1:50,000 Maps and Tables

KEY TO 1:50,000 SCALE MAPS

OPEN PIT OR PLACER MINE

MINE SHAFT

MINE ADIT

PROSPECT PIT

OCCURRENCE

PRINCIPAL COMMODITIES

Ag Silver
Au Gold
Cu Copper
Fe Iron
Py Pyrite (FeS)
Zn Zinc

Table 1. Metallic mines, prospects, and occurrences in Willis Mountain 7.5-minute quadrangle.

LOCALITY	LATITUDE	LONGITUDE	COUNTY	QUADRANGLE	PRINCIPAL COMMODITY	TYPE OF OPENING	NAME	REFERENCES
103B-101	37.485966	-78.498863	Buckingham	Willis Mountain	gold	prospect pit	unknown	unpublished MRV base map
103B-102	37.488003	-78.499390	Buckingham	Willis Mountain	gold	prospect pit	unknown	unpublished MRV base map
103B-103	37.491962	-78.497154	Buckingham	Willis Mountain	gold	shaft	Morrow	56, 58, 53, 59, 28, 63, 8, 19
103B-104	37.493111	-78.498482	Buckingham	Willis Mountain	gold	prospect pit	Morrow	56, 58, 53, 59, 28, 63, 8, 19
103B-105	37.495663	-78.497009	Buckingham	Willis Mountain	gold	prospect pit	Seay	58, 53, 59, 8
103B-106	37.497162	-78.496277	Buckingham	Willis Mountain	gold	shaft	Seay	58, 53, 59, 8
103B-107	37.495522	-78.493507	Buckingham	Willis Mountain	gold	shaft	Morrow	56, 58, 53, 59, 28, 63, 8, 19
103B-108	37.499176	-78.490875	Buckingham	Willis Mountain	gold	prospect pit	unknown	unpublished MRV base map
103B-112	37.462315	-78.465744	Buckingham	Willis Mountain	copper	shaft	unknown	unpublished MRV base map
103B-113	37.461609	-78.465721	Buckingham	Willis Mountain	copper	shaft	unknown	unpublished MRV base map
103B-203	37.487671	-78.421410	Buckingham	Willis Mountain	iron	prospect pit	unknown	unpublished MRV base map
103B-301	37.499401	-78.401810	Buckingham	Willis Mountain	iron	open pit	Sheperd	unpublished MRV base map
103B-401	37.452419	-78.467987	Buckingham	Willis Mountain	copper	prospect pit	unknown	30

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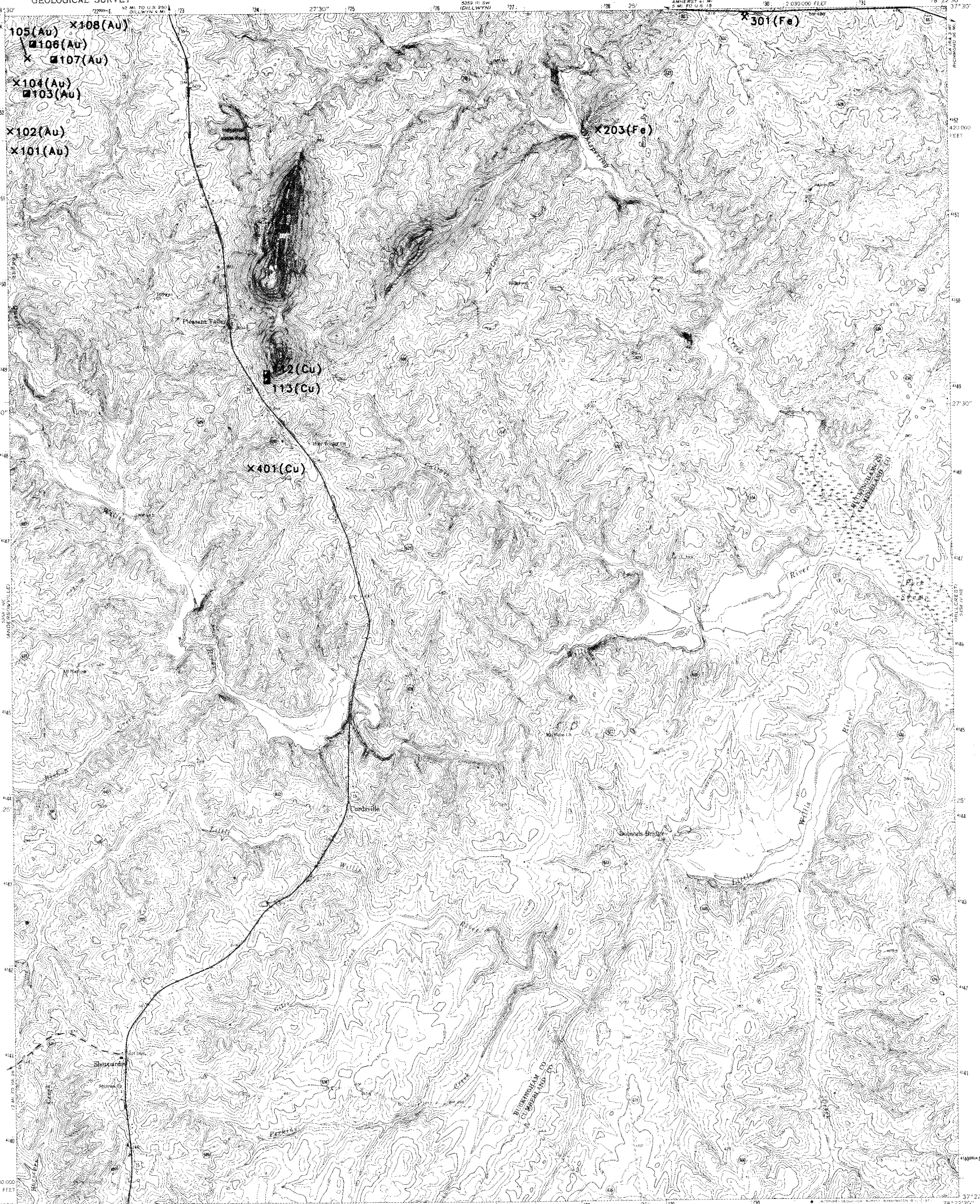
DIVISION OF MINERAL RESOURCES
JAMES L. CALVER, STATE GEOLOGIST

WILLIS MOUNTAIN QUADRANGLE
VIRGINIA
7.5 MINUTE SERIES (TOPOGRAPHIC)
NW/4 FARMVILLE 15' QUADRANGLE



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Topography by photogrammetric methods from aerial photographs taken 1967. Field checked 1968

Polyconic projection. 1927 North American datum
10,000-foot grid based on Virginia coordinate system, south zone
1000-meter Universal Transverse Mercator grid ticks, zone 17, shown in blue

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked

UTM GRID AND 1968 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL

ROAD CLASSIFICATION

Primary highway, all weather, hard surface
Light-duty road, all weather, improved surface
Secondary highway, all weather, hard surface
Unimproved road, fair or dry weather

U.S. Route
State Route

QUADRANGLE LOCATION

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
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AND VIRGINIA DIVISION OF MINERAL RESOURCES, CHARLOTTESVILLE, VIRGINIA 22903
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Contours and woodland symbols omitted

WILLIS MOUNTAIN, VA.
NW/4 FARMVILLE 15' QUADRANGLE
N3722.5—W7822.5/7.5

1968

AMS 6358 IV NW—SERIES V834

Table 2. Metallic mines, prospects, and occurrences in Andersonville 7.5-minute quadrangle.

LOCALITY	LATITUDE	LONGITUDE	COUNTY	QUADRANGLE	PRINCIPAL COMMODITY	TYPE OF OPENING	NAME	REFERENCES
104A-202	37.459034	-78.576721	Buckingham	Andersonville	gold	adit	Bondurant	58, 59, 53, 19
104A-203	37.464684	-78.568611	Buckingham	Andersonville	gold	shaft	Anderson	58, 59, 53
104A-302	37.494213	-78.502518	Buckingham	Andersonville	gold	prospect pit	unknown	unpublished MRV base map
104A-303	37.491684	-78.501190	Buckingham	Andersonville	gold	prospect pit	unknown	unpublished MRV base map
104A-304	37.466366	-78.506340	Buckingham	Andersonville	iron	prospect pit	unknown	31
104A-305	37.468182	-78.503998	Buckingham	Andersonville	iron	prospect pit	unknown	31
104A-401	37.438141	-78.620979	Buckingham	Andersonville	gold	prospect pit	unknown	unpublished MRV base map
104A-402	37.440807	-78.619843	Buckingham	Andersonville	gold	prospect pit	unknown	unpublished MRV base map
104A-403	37.441681	-78.609131	Buckingham	Andersonville	gold	open pit	Flood	58, 53, 28, 8, 59
104A-404	37.442074	-78.602104	Buckingham	Andersonville	gold	prospect pit	unknown	unpublished MRV base map
104A-405	37.451557	-78.591019	Buckingham	Andersonville	gold	prospect pit	Bondurant	58, 59, 53, 19
104A-406	37.452740	-78.589951	Buckingham	Andersonville	gold	shaft	Bondurant	58, 59, 53, 19
104A-407	37.453136	-78.589485	Buckingham	Andersonville	gold	shaft	Bondurant	58, 59, 53, 19
104A-501	37.451580	-78.563545	Buckingham	Andersonville	gold	open pit	Copal	58, 53
104A-601	37.431061	-78.513054	Buckingham	Andersonville	iron	prospect pit	unknown	31
104A-602	37.431122	-78.510384	Buckingham	Andersonville	iron	prospect pit	unknown	31
104A-603	37.421329	-78.508987	Buckingham	Andersonville	iron	prospect pit	unknown	unpublished MRV base map
104A-604	37.421902	-78.506653	Buckingham	Andersonville	iron	prospect pit	unknown	unpublished MRV base map
104A-701	37.406288	-78.615608	Buckingham	Andersonville	gold	prospect pit	unknown	31
104A-801	37.393028	-78.578636	Buckingham	Andersonville	iron	prospect pit	unknown	unpublished MRV base map
104A-802	37.391113	-78.578613	Buckingham	Andersonville	iron	shaft	unknown	unpublished MRV base map
104A-902	37.415581	-78.511787	Buckingham	Andersonville	iron	adit	unknown	unpublished MRV base map

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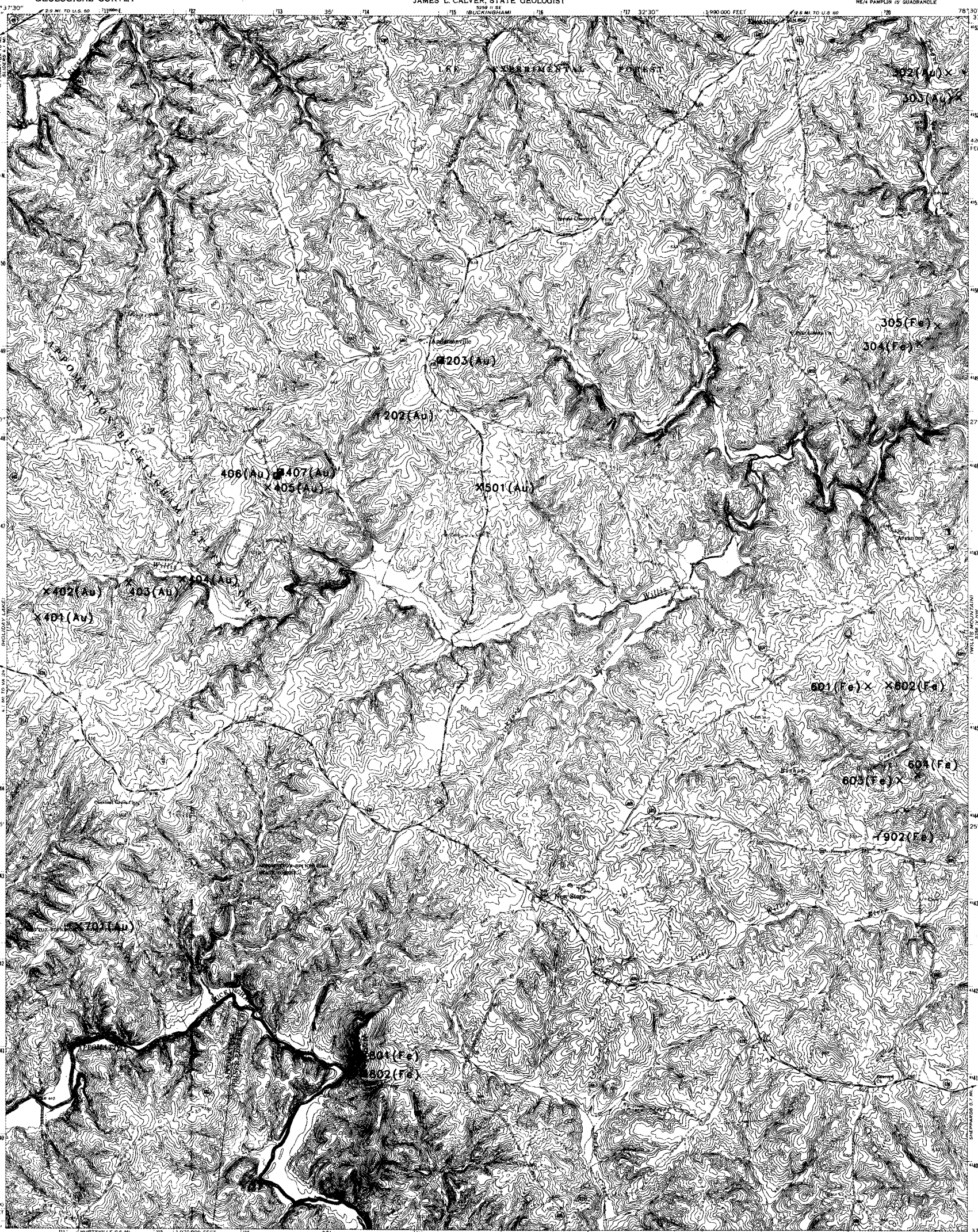
DIVISION OF MINERAL RESOURCES
JAMES L. CALVER, STATE GEOLOGIST

ANDERSONVILLE QUADRANGLE
VIRGINIA
7.5 MINUTE SERIES (TOPOGRAPHIC)
NE/4 PAMPLIN 15' QUADRANGLE



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Topography by photogrammetric methods from aerial photographs taken 1967. Field checked 1967

Polyconic projection. 1927 North American datum
10,000-foot grid based on Virginia coordinate system, south zone
1000-meter Universal Transverse Mercator grid ticks, zone 17, shown in blue

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked

UTM GRID AND 1967 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
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A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

ROAD CLASSIFICATION

Primary highway, all weather, hard surface — Light-duty road, all weather, improved surface

Secondary highway, all weather, hard surface — Unimproved road, fair or dry weather

State Route

SPECIAL PRINTING
Contours and woodland symbols omitted

ANDERSONVILLE, VA.
NE/4 PAMPLIN 15' QUADRANGLE
N3722.5—W7830/7.5

1967

AMS 5258 I NE—SERIES V834

Table 3. Metallic mines, prospects, and occurrences in Pamplin 7.5-minute quadrangle.

LOCALITY	LATITUDE	LONGITUDE	COUNTY	QUADRANGLE	PRINCIPAL COMMODITY	TYPE OF OPENING	NAME	REFERENCES
104C–201	37.347816	-78.678825	Appomattox	Pamplin	gold	prospect pit	unknown	unpublished MRV base map
104C–202	37.349628	-78.679443	Appomattox	Pamplin	gold	prospect pit	unknown	unpublished MRV base map
104C–203	37.349888	-78.677933	Appomattox	Pamplin	gold	prospect pit	unknown	unpublished MRV base map
104C–204	37.352226	-78.676193	Appomattox	Pamplin	gold	prospect pit	unknown	unpublished MRV base map
104C–205	37.353352	-78.675110	Appomattox	Pamplin	gold	prospect pit	unknown	unpublished MRV base map

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DIVISION OF MINERAL RESOURCES
JAMES L. CALVER, STATE GEOLOGIST

PAMPLIN QUADRANGLE
VIRGINIA
7.5 MINUTE SERIES (TOPOGRAPHIC)
SW/4 PAMPLIN 15' QUADRANGLE

Mapped, edited, and published by the Geological Survey

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Topography by photogrammetric methods from aerial photographs taken 1967. Field checked 1968

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PAMPLIN, VA.
SW/4 PAMPLIN 15' QUADRANGLE
N3715—W7837.5/7.5

1968

AMS 5258 I SW—SERIES V834

SPECIAL PRINTING
Contours and woodland symbols omitted

Table 4. Metallic mines, prospects, and occurrences in Prospect 7.5-minute quadrangle.

LOCALITY	LATITUDE	LONGITUDE	COUNTY	QUADRANGLE	PRINCIPAL COMMODITY	TYPE OF OPENING	NAME	REFERENCES
104D-501	37.327548	-78.561597	Prince Edward	Prospect	gold	prospect pit	Prospect	55
104D-502	37.328721	-78.560088	Prince Edward	Prospect	gold	prospect pit	Prospect	55
104D-503	37.327771	-78.560372	Prince Edward	Prospect	gold	shaft	Prospect	55
104D-504	37.326711	-78.560506	Prince Edward	Prospect	gold	shaft	Prospect	55

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

COMMONWEALTH OF VIRGINIA
DIVISION OF MINERAL RESOURCES
JAMES L. CALVER, STATE GEOLOGIST

PROSPECT QUADRANGLE
VIRGINIA
7.5 MINUTE SERIES (TOPOGRAPHIC)
SE/4 PAMPLIN 15' QUADRANGLE

Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1967. Field checked 1967

Polyconic projection. 1927 North American datum
10,000-foot grid based on Virginia coordinate system, south zone
1000-meter Universal Transverse Mercator grid ticks, zone 17, shown in blue

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked

UTM GRID AND 1967 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
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AND VIRGINIA DIVISION OF MINERAL RESOURCES, CHARLOTTESVILLE, VIRGINIA 22903
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

ROAD CLASSIFICATION

Primary highway, all weather, hard surface	Light-duty road, all weather, improved surface
Secondary highway, all weather, hard surface	Unimproved road, fair or dry weather
U. S. Route	State Route

PROSPECT, VA.
SE/4 PAMPLIN 15' QUADRANGLE
N3715—W7830/7.5

1967

AMS 5258 I SE—SERIES V834

SPECIAL PRINTING
Contours and woodland symbols omitted

PUBLICATION 147

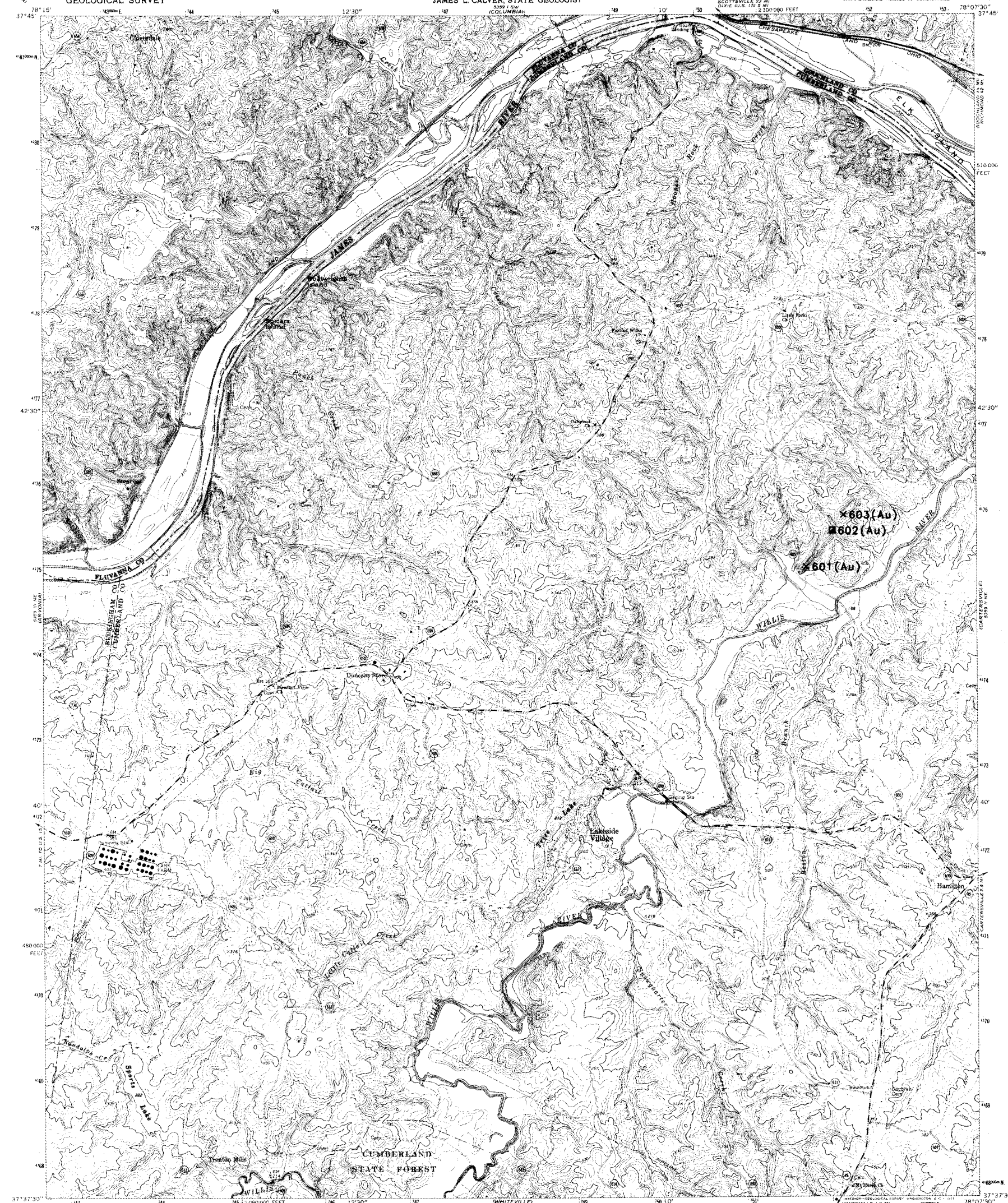
Table 5. Metallic mines, prospects, and occurrences in Lakeside Village 7.5-minute quadrangle.

LOCALITY	LATITUDE	LONGITUDE	COUNTY	QUADRANGLE	PRINCIPAL COMMODITY	TYPE OF OPENING	NAME	REFERENCES
129B-601	37.691658	-78.147888	Cumberland	Lakeside Village	gold	prospect pit	G.S. Dickey	56, 53, 58, 59
129B-602	37.695503	-78.144386	Cumberland	Lakeside Village	gold	shaft	G.S. Dickey	56, 53, 58, 59
129B-603	37.697166	-78.142883	Cumberland	Lakeside Village	gold	prospect pit	G.S. Dickey	56, 53, 58, 59

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

COMMONWEALTH OF VIRGINIA
DIVISION OF MINERAL RESOURCES
JAMES L. CALVER, STATE GEOLOGIST

LAKESIDE VILLAGE QUADRANGLE
VIRGINIA
7.5 MINUTE SERIES (TOPOGRAPHIC)
NW/4 LAKESIDE VILLAGE 15' QUADRANGLE



Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1958–1959. Field checked 1959. Revised from aerial photographs taken 1969. Field checked 1969

Polyconic projection. 1927 North American datum
10,000-foot grid based on Virginia coordinate system, south zone
1000-meter Universal Transverse Mercator grid ticks, zone 17, shown in blue

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked

UTM GRID AND 1969 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL

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A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

ROAD CLASSIFICATION

Primary highway, all weather, hard surface — Light-duty road, all weather, improved surface

Secondary highway, all weather, hard surface — Unimproved road, fair or dry weather

State Route

SPECIAL PRINTING
Contours and woodland symbols omitted

LAKESIDE VILLAGE, VA.
NW/4 LAKESIDE VILLAGE 15' QUADRANGLE
N3737.5—W7807.5/7.5

1969

AMS 5359 II NW—SERIES V834

Table 6. Metallic mines, prospects, and occurrences in Arvonia 7.5-minute quadrangle.

LOCALITY	LATITUDE	LONGITUDE	COUNTY	QUADRANGLE	PRINCIPAL COMMODITY	TYPE OF OPENING	NAME	REFERENCES
130A-427	37.675705	-78.342125	Buckingham	Arvonia	iron	open pit	Ore Bank	unpublished MRV base map
130A-428	37.676590	-78.343277	Buckingham	Arvonia	iron	prospect pit	Ore Bank	unpublished MRV base map
130A-507	37.684753	-78.306190	Buckingham	Arvonia	copper	shaft	Hudgins	56, 53, 59, 1, 4
130A-508	37.693516	-78.301605	Buckingham	Arvonia	copper	adit	Johnson	56, 4, 47, 59, 1
130A-509	37.694294	-78.300217	Buckingham	Arvonia	copper	adit	Johnson	56, 4, 47, 59, 1
130A-510	37.694572	-78.300987	Buckingham	Arvonia	copper	shaft	Johnson	56, 4, 47, 59, 1
130A-511	37.695232	-78.300476	Buckingham	Arvonia	copper	shaft	McKenna	56, 59, 47, 4, 1
130A-512	37.696140	-78.299667	Buckingham	Arvonia	copper	adit	McKenna	56, 59, 47, 4, 1
130A-513	37.697433	-78.298492	Buckingham	Arvonia	copper	shaft	Margaret	4, 47, 59, 1
130A-514	37.701916	-78.296967	Buckingham	Arvonia	copper	prospect pit	unknown	4

UNITED STATES
DEPARTMENT OF THE INTERIOR
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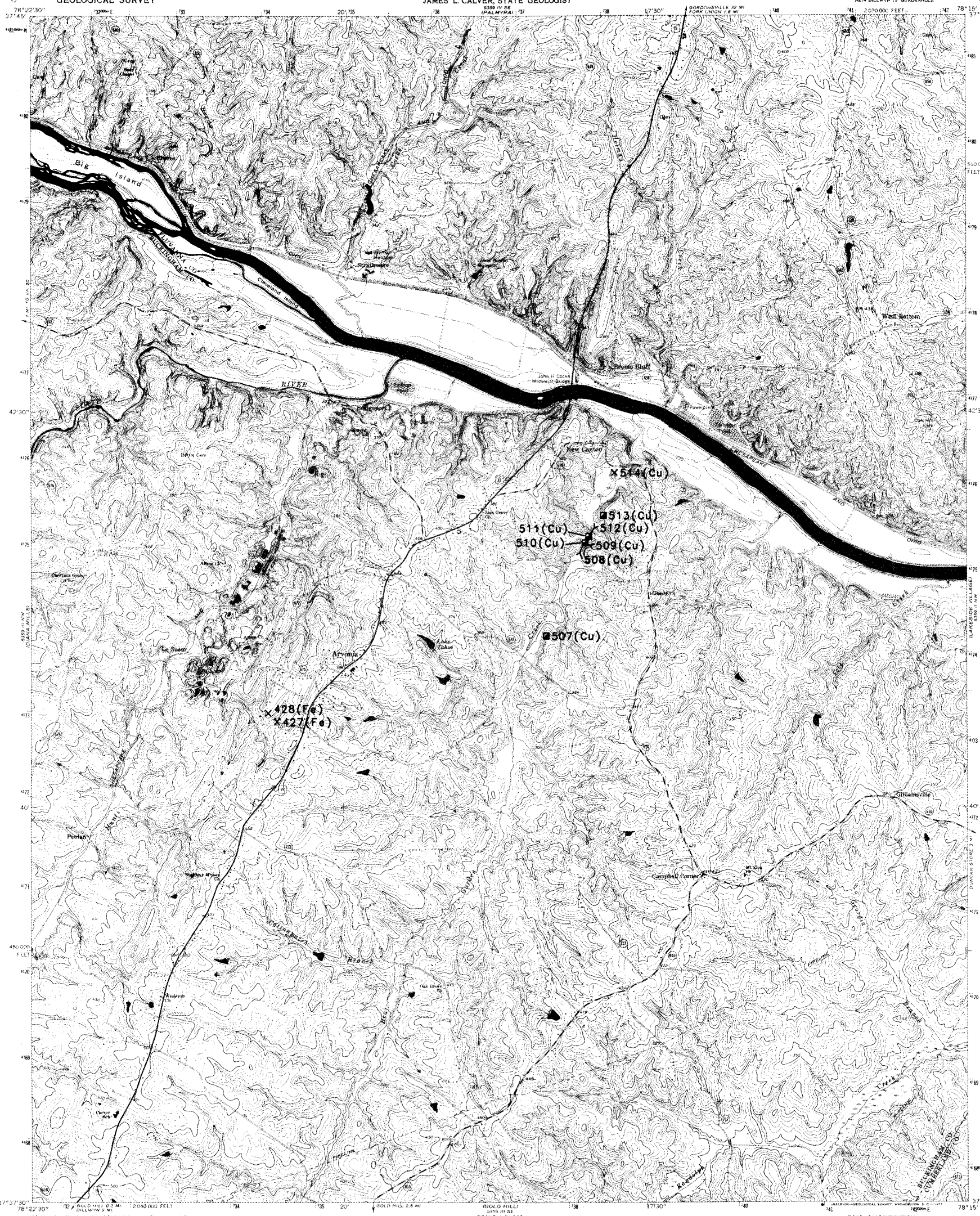
COMMONWEALTH OF VIRGINIA
DIVISION OF MINERAL RESOURCES
JAMES L. CALVER, STATE GEOLOGIST

ARVONIA QUADRANGLE
VIRGINIA
7.5 MINUTE SERIES (TOPOGRAPHIC)
NE/4 DILLWYN 15' QUADRANGLE



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Topography by photogrammetric methods from aerial photographs taken 1967. Field checked 1968

Polyconic projection. 1927 North American datum
10,000-foot grid based on Virginia coordinate system, south zone
1000-meter Universal Transverse Mercator grid ticks, zone 17, shown in blue

UTM GRID AND 1968 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL

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A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

ROAD CLASSIFICATION

Primary highway, all weather, hard surface — Light-duty road, all weather, improved surface
Secondary highway, all weather, hard surface — Unimproved road, fair or dry weather
U.S. Route — State Route

ARVONIA, VA.
NE/4 DILLWYN 15' QUADRANGLE
N3737.5---W7815/7.5

1968

AMS 5359 III NE--SERIES V834

SPECIAL PRINTING
Contours and woodland symbols omitted

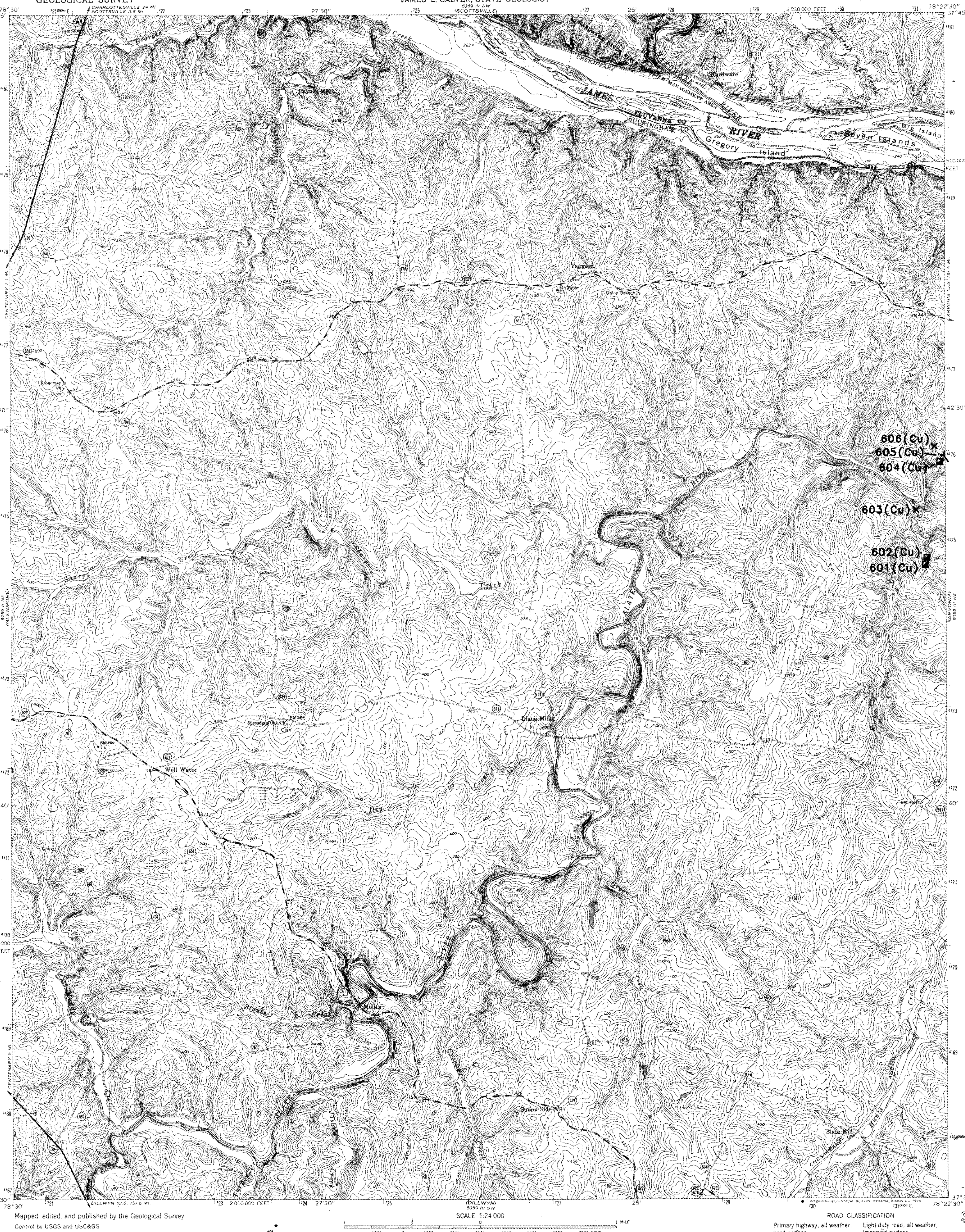
Table 7. Metallic mines, prospects, and occurrences in Diana Mills 7.5-minute quadrangle.

LOCALITY	LATITUDE	LONGITUDE	COUNTY	QUADRANGLE	PRINCIPAL COMMODITY	TYPE OF OPENING	NAME	REFERENCES
130B-601	37.691750	-78.377831	Buckingham	Diana Mills	copper	shaft	Ford	56, 59, 53, 28, 8, 58
130B-602	37.692478	-78.377594	Buckingham	Diana Mills	copper	shaft	Ford	56, 59, 53, 28, 8, 58
130B-603	37.697529	-78.378990	Buckingham	Diana Mills	copper	prospect pit	unknown	unpublished MRV base map
130B-604	37.702599	-78.375786	Buckingham	Diana Mills	copper	shaft	Lightfoot	56, 4, 53, 59, 63, 8, 19
130B-605	37.703251	-78.375237	Buckingham	Diana Mills	copper	adit	Lightfoot	56, 4, 53, 59, 63, 8, 19
130B-606	37.704235	-78.376495	Buckingham	Diana Mills	copper	prospect pit	Bumpass	59

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

COMMONWEALTH OF VIRGINIA
DIVISION OF MINERAL RESOURCES
JAMES L. CALVER, STATE GEOLOGIST

DIANA MILLS QUADRANGLE
VIRGINIA
7.5 MINUTE SERIES (TOPOGRAPHIC)
NW/4 DILLWYN 15' QUADRANGLE



Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1967. Field checked 1967

Polyconic projection. 1927 North American datum
10,000-foot grid based on Virginia coordinate system, south zone
1000-metre Universal Transverse Mercator grid ticks, zone 17, shown in blue

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked

UTM GRID AND 1974 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
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AND VIRGINIA DIVISION OF MINERAL RESOURCES, CHARLOTTESVILLE, VIRGINIA 22903
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

Revisions shown in purple compiled in cooperation with Commonwealth of Virginia agencies from aerial photographs taken 1974. This information not field checked

ROAD CLASSIFICATION

Primary highway, all weather, hard surface
Light-duty road, all weather, improved surface
Secondary highway, all weather, hard surface
Unimproved road, fair or dry weather
State Route

DIANA MILLS, VA.
NW/4 DILLWYN 15' QUADRANGLE
N3737.5—W7822.5/7.5

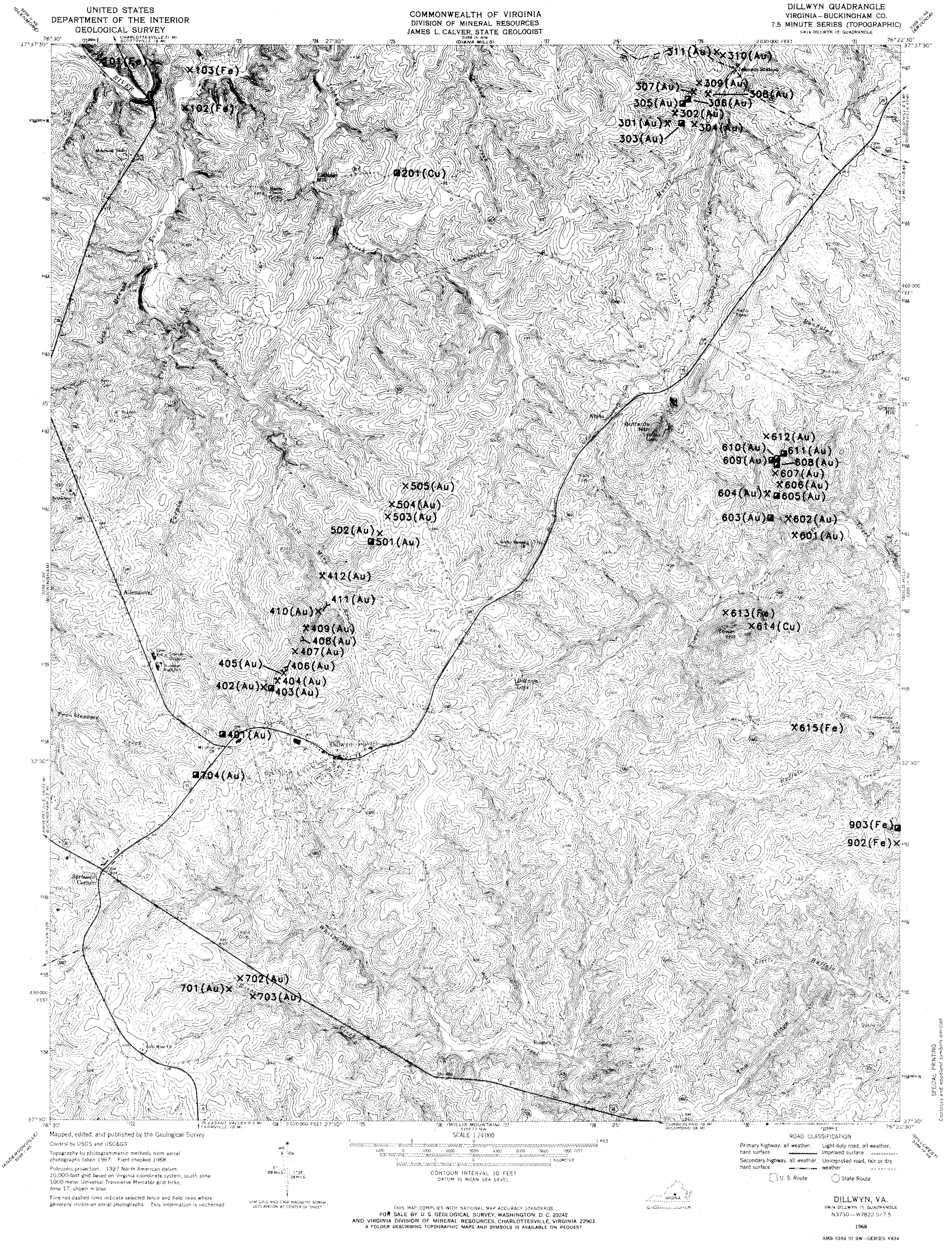
1967
PHOTOREVISED 1974
AMS 5359 III NW—SERIES V834

Table 8. Metallic mines, prospects, and occurrences in Dillwyn 7.5-minute quadrangle.

LOCALITY	LATITUDE	LONGITUDE	COUNTY	QUADRANGLE	PRINCIPAL COMMODITY	TYPE OF OPENING	NAME	REFERENCES
130C-101	37.622742	-78.485054	Buckingham	Dillwyn	iron	prospect pit	unknown	unpublished MRV base map
130C-102	37.617500	-78.480331	Buckingham	Dillwyn	iron	prospect pit	unknown	unpublished MRV base map
130C-103	37.621925	-78.479584	Buckingham	Dillwyn	iron	prospect pit	unknown	unpublished MRV base map
130C-201	37.610065	-78.449112	Buckingham	Dillwyn	copper	shaft	Anaconda	58, 4
130C-301	37.615822	-78.409302	Buckingham	Dillwyn	gold	open pit	Anaconda	56, 58, 47, 4, 63, 28, 53
130C-302	37.617016	-78.408211	Buckingham	Dillwyn	gold	open pit	Anaconda	56, 58, 47, 4, 63, 28, 53
130C-303	37.615852	-78.407318	Buckingham	Dillwyn	gold	shaft	Anaconda	56, 58, 47, 4, 63, 28, 53
130C-304	37.615719	-78.405388	Buckingham	Dillwyn	gold	prospect pit	Anaconda	56, 58, 47, 4, 63, 28, 53
130C-305	37.618122	-78.407166	Buckingham	Dillwyn	gold	shaft	Morton	58, 53, 28, 59, 8
130C-306	37.618633	-78.406387	Buckingham	Dillwyn	gold	shaft	Morton	58, 53, 28, 59, 8
130C-307	37.619476	-78.405464	Buckingham	Dillwyn	gold	open pit	Freeman	unpublished MRV base map
130C-308	37.619236	-78.403404	Buckingham	Dillwyn	gold	placer mine	Freeman	unpublished MRV base map
130C-309	37.620548	-78.404671	Buckingham	Dillwyn	gold	prospect pit	Freeman	unpublished MRV base map
130C-310	37.623760	-78.401176	Buckingham	Dillwyn	gold	prospect pit	unknown	unpublished MRV base map
130C-311	37.624130	-78.402122	Buckingham	Dillwyn	gold	prospect pit	unknown	unpublished MRV base map
130C-401	37.544716	-78.474716	Buckingham	Dillwyn	gold	shaft	Williams	58
130C-402	37.550228	-78.468636	Buckingham	Dillwyn	gold	prospect pit	Buckingham	58, 4, 59, 63, 53, 8, 19
130C-403	37.550102	-78.467522	Buckingham	Dillwyn	gold	shaft	Buckingham	58, 4, 59, 63, 53, 8, 19
130C-404	37.550976	-78.466576	Buckingham	Dillwyn	gold	open pit	London & Virginia	56, 58, 4, 53, 63, 51, 8, 19, 29, 59
130C-405	37.551907	-78.465645	Buckingham	Dillwyn	gold	open pit	London & Virginia	56, 58, 4, 53, 63, 51, 8, 19, 29, 59
130C-406	37.552624	-78.465111	Buckingham	Dillwyn	gold	adit	London & Virginia	56, 58, 4, 53, 63, 51, 8, 19, 29, 59
130C-407	37.554420	-78.463959	Buckingham	Dillwyn	gold	prospect pit	Hobson	58
130C-408	37.555740	-78.462700	Buckingham	Dillwyn	gold	adit	Hobson	58
130C-409	37.557129	-78.462402	Buckingham	Dillwyn	gold	placer mine	Hobson	58
130C-410	37.559090	-78.460548	Buckingham	Dillwyn	gold	prospect pit	Hobson	58
130C-411	37.559776	-78.459320	Buckingham	Dillwyn	gold	adit	Hobson	58
130C-412	37.563229	-78.460007	Buckingham	Dillwyn	gold	placer mine	Hobson	58
130C-501	37.567219	-78.452858	Buckingham	Dillwyn	gold	shaft	Burnett	58, 59, 28, 53, 8, 19
130C-502	37.568199	-78.451500	Buckingham	Dillwyn	gold	prospect pit	Burnett	58, 59, 28, 53, 8, 19
130C-503	37.570156	-78.450333	Buckingham	Dillwyn	gold	prospect pit	Burnett	58, 59, 28, 53, 8, 19
130C-504	37.571575	-78.449738	Buckingham	Dillwyn	gold	prospect pit	Burnett	58, 59, 28, 53, 8, 19
130C-505	37.573708	-78.447731	Buckingham	Dillwyn	gold	prospect pit	Burnett	58, 59, 28, 53, 8, 19
130C-601	37.567997	-78.390572	Buckingham	Dillwyn	gold	placer mine	Greeley	58, 59, 53, 8
130C-602	37.569942	-78.391525	Buckingham	Dillwyn	gold	open pit	Greeley	58, 59, 53, 8

Table 8. Metallic mines, prospects, and occurrences in Dillwyn 7.5-minute quadrangle.

LOCALITY	LATITUDE	LONGITUDE	COUNTY	QUADRANGLE	PRINCIPAL COMMODITY	TYPE OF OPENING	NAME	REFERENCES
130C-603	37.570038	-78.394180	Buckingham	Dillwyn	gold	shaft	Greeley	58, 59, 53, 8
130C-604	37.572796	-78.394600	Buckingham	Dillwyn	gold	open pit	Greeley	58, 59, 53, 8
130C-605	37.572567	-78.393257	Buckingham	Dillwyn	gold	shaft	Greeley	58, 59, 53, 8
130C-606	37.573872	-78.392792	Buckingham	Dillwyn	gold	open pit	Greeley	58, 59, 53, 8
130C-607	37.575195	-78.393425	Buckingham	Dillwyn	gold	prospect pit	Greeley	58, 59, 53, 8
130C-608	37.576157	-78.393250	Buckingham	Dillwyn	gold	shaft	Greeley	58, 59, 53, 8
130C-609	37.576721	-78.394012	Buckingham	Dillwyn	gold	shaft	Greeley	58, 59, 53, 8
130C-610	37.576916	-78.393204	Buckingham	Dillwyn	gold	shaft	Greeley	58, 59, 53, 8
130C-611	37.577492	-78.392227	Buckingham	Dillwyn	gold	shaft	Greeley	58, 59, 53, 8
130C-612	37.579494	-78.394760	Buckingham	Dillwyn	gold	prospect pit	Greeley	58, 59, 53, 8
130C-613	37.558987	-78.400719	Buckingham	Dillwyn	iron	prospect pit	unknown	unpublished MRV base map
130C-614	37.557442	-78.396935	Buckingham	Dillwyn	copper	prospect pit	unknown	unpublished MRV base map
130C-615	37.545647	-78.390617	Buckingham	Dillwyn	iron	open pit	Ayre	4
130C-701	37.515099	-78.473679	Buckingham	Dillwyn	gold	prospect pit	unknown	unpublished MRV base map
130C-702	37.516373	-78.472023	Buckingham	Dillwyn	gold	prospect pit	unknown	unpublished MRV base map
130C-703	37.514263	-78.470146	Buckingham	Dillwyn	gold	prospect pit	unknown	unpublished MRV base map
130C-704	37.539997	-78.478615	Buckingham	Dillwyn	gold	shaft	unknown	unpublished MRV base map
130C-902	37.532196	-78.375549	Buckingham	Dillwyn	iron	prospect pit	unknown	4
130C-903	37.533970	-78.375450	Buckingham	Dillwyn	iron	shaft	unknown	4


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
COMMONWEALTH OF VIRGINIA
DIVISION OF MINERAL RESOURCES
JAMES L. CALVER, STATE GEOLOGIST
DILLWYN QUADRANGLE
VIRGINIA – BUCKINGHAM CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
SW/4 DILLWYN 15' QUADRANGLE
101(Fe)
103(Fe)
102(Fe)
201(Cu)
311(Au)
310(Au)
307(Au)
309(Au)
308(Au)
305(Au)
306(Au)
302(Au)
301(Au)
304(Au)
303(Au)
612(Au)
610(Au)
611(Au)
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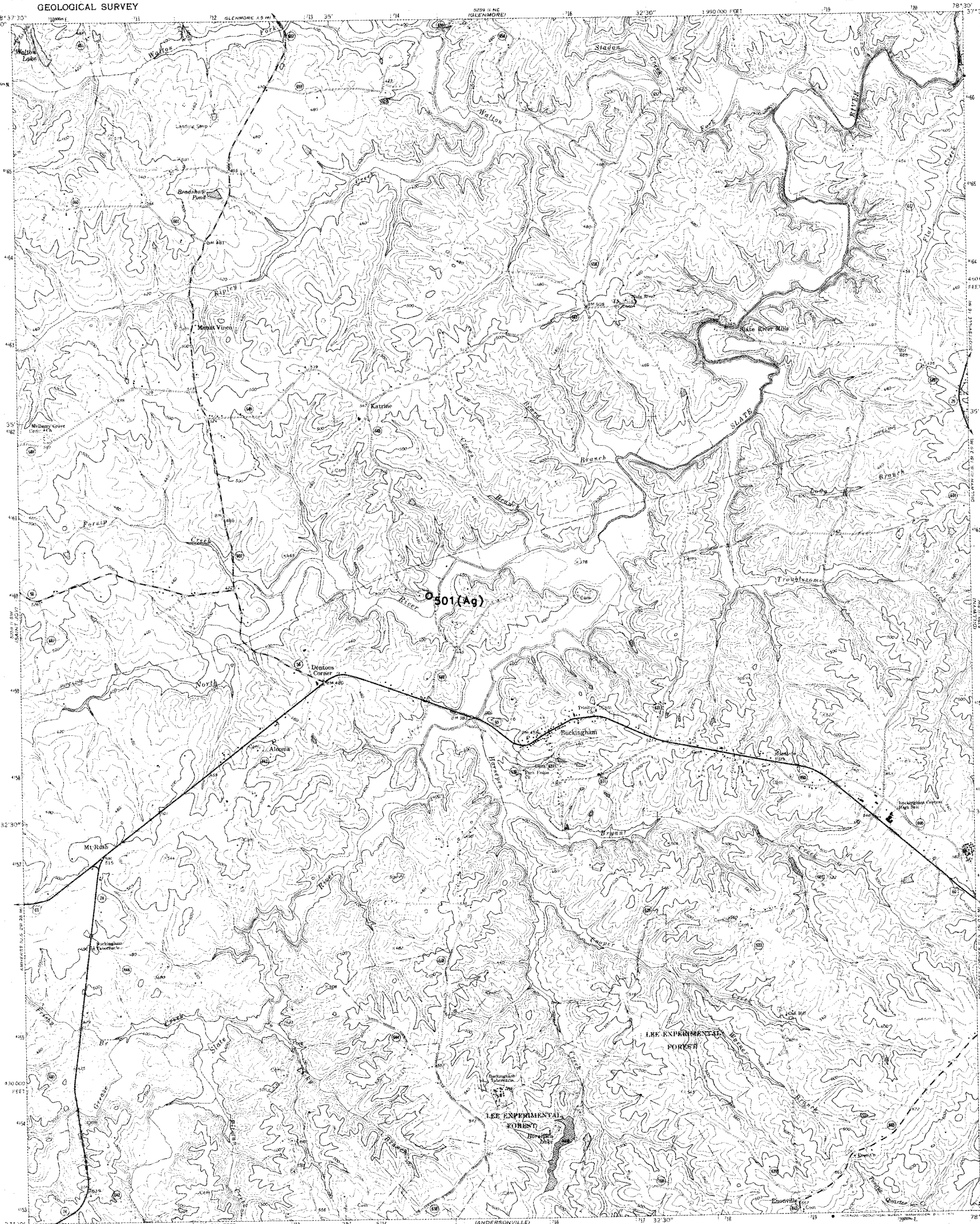
504(Au)
503(Au)
502(Au)
501(Au)
412(Au)
411(Au)
410(Au)
409(Au)
408(Au)
407(Au)
405(Au)
406(Au)
404(Au)
402(Au)
403(Au)
401(Au)
704(Au)
613(Fe)
614(Cu)
615(Fe)
903(Fe)
902(Fe)
702(Au)
701(Au)
703(Au)
Dillwyn
Allensjovel
Sprouses Corner
Rosney
Alpha
Buffards Mtn
Gravel Hill
Johnson Station
Mapped, edited, and published by the Geological Survey
Control by USGS and USC&GS
Topography by photogrammetric methods from aerial photographs taken 1967. Field checked 1968
Polyconic projection. 1927 North American datum
10,000-foot grid based on Virginia coordinate system, south zone
1000-meter Universal Transverse Mercator grid ticks, zone 17, shown in blue
Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked
UTM GRID AND 1968 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET
SCALE 1:24000
CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL
THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. 20242
AND VIRGINIA DIVISION OF MINERAL RESOURCES, CHARLOTTESVILLE, VIRGINIA 22903
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST
ROAD CLASSIFICATION
Primary highway, all weather, hard surface
Light-duty road, all weather, improved surface
Secondary highway, all weather, hard surface
Unimproved road, fair or dry weather
U. S. Route
State Route
DILLWYN, VA.
SW/4 DILLWYN 15' QUADRANGLE
N3730—W7822.5/7.5
1968
AMS 5359 III SW—SERIES V834
SPECIAL PRINTING
Contours and woodland symbols omitted

Table 9. Metallic mines, prospects, and occurrences in Buckingham 7.5-minute quadrangle.

LOCALITY	LATITUDE	LONGITUDE	COUNTY	QUADRANGLE	PRINCIPAL COMMODITY	TYPE OF OPENING	NAME	REFERENCES
131D-501	37.564916	-78.571174	Buckingham	Buckingham	silver	occurrence	North River	54

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

BUCKINGHAM QUADRANGLE
VIRGINIA–BUCKINGHAM CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
SE/4 BUCKINGHAM 15' QUADRANGLE



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Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1959. Field checked 1961
Revised from aerial photographs taken 1968. Field checked 1968

Polyconic projection. 1927 North American datum
10,000-foot grid based on Virginia coordinate system, south zone
1000-meter Universal Transverse Mercator grid ticks, zone 17, shown in blue

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked

UTM GRID AND 1968 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
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A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

ROAD CLASSIFICATION

Primary highway, all weather, hard surface
Light-duty road, all weather, improved surface
Secondary highway, all weather, hard surface
Unimproved road, fair or dry weather

U. S. Route
State Route

BUCKINGHAM, VA.
SE/4 BUCKINGHAM 15' QUADRANGLE
N3730—W7830/7.5

1968

AMS 5259 II SE—SERIES V834

SPECIAL PRINTING
Contours and woodland symbols omitted

Table 10. Metallic mines, prospects, and occurrences in Pendleton 7.5-minute quadrangle.

LOCALITY	LATITUDE	LONGITUDE	COUNTY	QUADRANGLE	PRINCIPAL COMMODITY	TYPE OF OPENING	NAME	REFERENCES
151B-101	37.999607	-77.986366	Louisa	Pendleton	gold	prospect pit	unknown	63
151B-102	37.999664	-77.984047	Louisa	Pendleton	gold	prospect pit	unknown	63
151B-103	37.994236	-77.984741	Louisa	Pendleton	gold	shaft	unknown	63
151B-104	37.979958	-77.992027	Louisa	Pendleton	gold	prospect pit	unknown	63
151B-201	37.975830	-77.918427	Louisa	Pendleton	gold	shaft	Proffit	53, 58, 5, 53
151B-202	37.965672	-77.929749	Louisa	Pendleton	gold	shaft	Thomasson's	53, 58, 28, 53, 7
151B-203	37.963715	-77.931602	Louisa	Pendleton	gold	shaft	Walnut Grove	53, 58, 5, 28, 53, 7
151B-204	37.995697	-77.931671	Louisa	Pendleton	gold	shaft	MacDonald	53, 58, 5, 53, 39
151B-301	37.980793	-77.911636	Louisa	Pendleton	gold	shaft	Louisa	53, 58, 5, 28, 53, 17, 8
151B-302	37.982956	-77.909058	Louisa	Pendleton	gold	shaft	Ricswan	53, 58, 5, 53
151B-303	37.984959	-77.906502	Louisa	Pendleton	gold	shaft	Slate Hill	53, 58, 5, 28, 53, 63, 8, 41
151B-304	37.989384	-77.900780	Louisa	Pendleton	gold	shaft	Luce	53, 58, 5, 53, 63
151B-305	37.995113	-77.896324	Louisa	Pendleton	gold	shaft	New Luce	53, 58, 5, 53

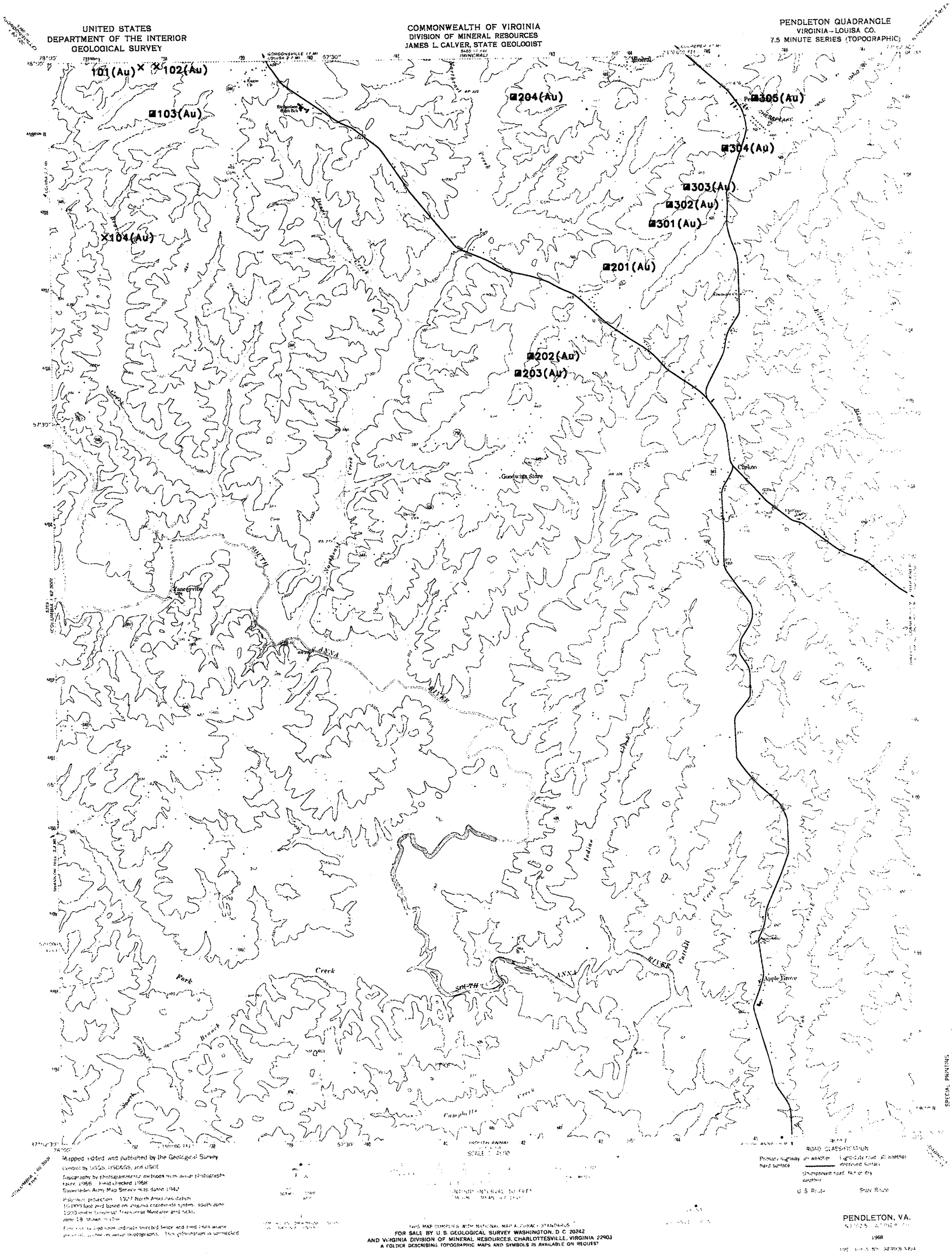
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
COMMONWEALTH OF VIRGINIA
DIVISION OF MINERAL RESOURCES
JAMES L. CALVER, STATE GEOLOGIST
PENDLETON QUADRANGLE
VIRGINIA--LOUISA CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
101(Au)
102(Au)
103(Au)
104(Au)
201(Au)
202(Au)
203(Au)
204(Au)
301(Au)
302(Au)
303(Au)
304(Au)
305(Au)
Mineral
Clarkton
Apple Grove
Yanceville
Mapped, edited, and published by the Geological Survey
Control by USGS, USC&GS, and USGS
Topography by photogrammetric methods from aerial photographs taken 1966. Field checked 1968
Superseded Army Map Service map dated 1942
Polyconic projection. 1927 North American datum
10,000 foot grid based on Virginia coordinate system, south zone
1000-meter Universal Transverse Mercator grid ticks, zone 18, shown in blue
ROAD CLASSIFICATION
Primary highway, hard surface
Light-duty road, all weather, improved surface
Unimproved road, fair or dry weather
U.S. Route
State Route
THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY WASHINGTON, D.C. 20242
AND VIRGINIA DIVISION OF MINERAL RESOURCES, CHARLOTTESVILLE, VIRGINIA 22903
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST
PENDLETON, VA.
1968
SPECIAL PRINTINGS

Table 11. Metallic mines, prospects, and occurrences in Ferncliff 7.5-minute quadrangle.

LOCALITY	LATITUDE	LONGITUDE	COUNTY	QUADRANGLE	PRINCIPAL COMMODITY	TYPE OF OPENING	NAME	REFERENCES
152A-301	37.983185	-78.007751	Louisa	Ferncliff	gold	prospect pit	unknown	unpublished MRV base map
152A-302	37.985523	-78.004700	Louisa	Ferncliff	gold	prospect pit	unknown	unpublished MRV base map
152A-601	37.926521	-78.001984	Louisa	Ferncliff	gold	open pit	Josh	58, 13
152A-901	37.880413	-78.039444	Goochland	Ferncliff	gold	prospect pit	unknown	unpublished MRV base map
152A-902	37.875587	-78.038330	Goochland	Ferncliff	gold	prospect pit	unknown	unpublished MRV base map
152A-903	37.909271	-78.026733	Louisa	Ferncliff	gold	prospect pit	unknown	unpublished MRV base map

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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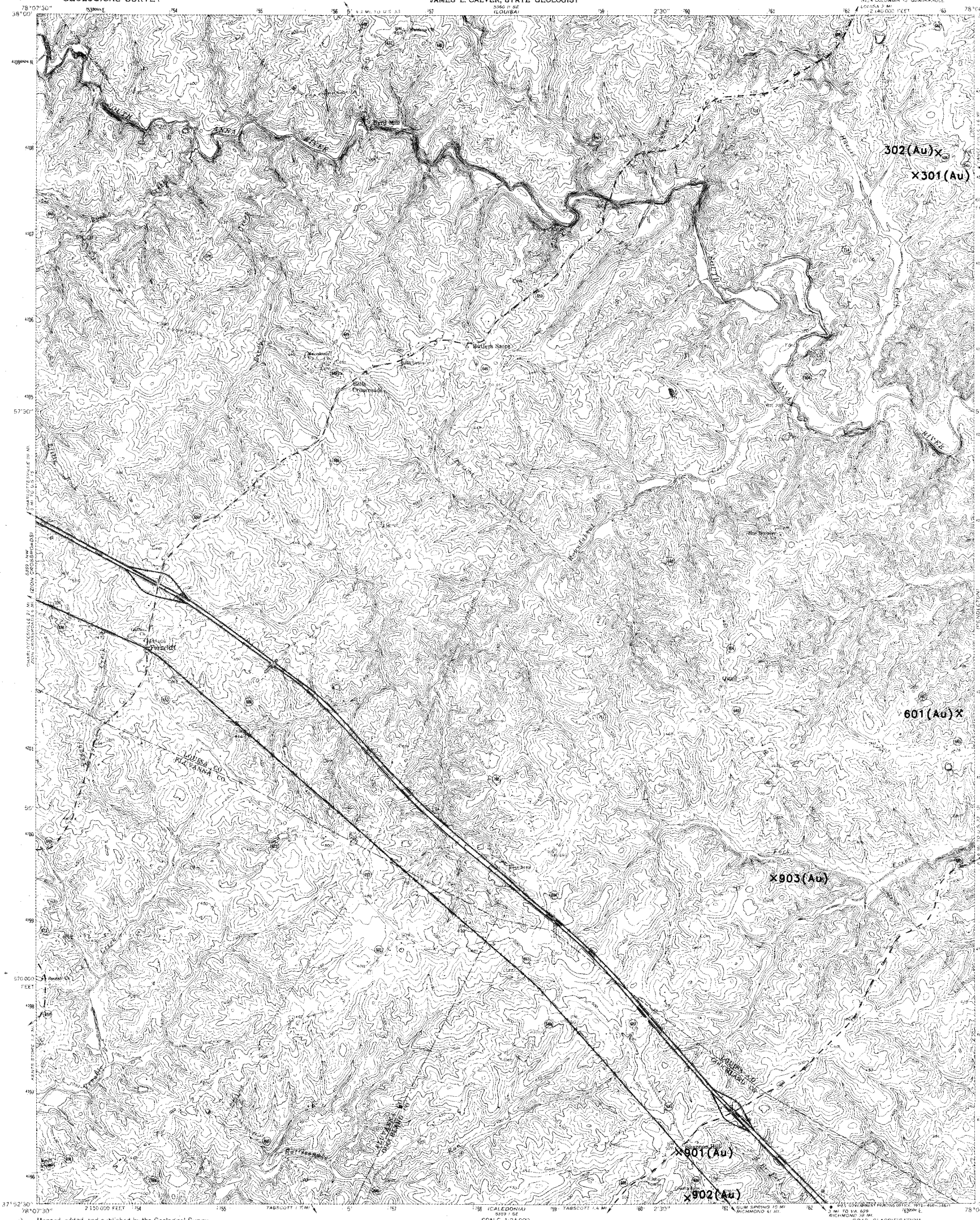
DIVISION OF MINERAL RESOURCES
JAMES L. CALVER, STATE GEOLOGIST

FERNCLIFF QUADRANGLE
VIRGINIA
7.5 MINUTE SERIES (TOPOGRAPHIC)



Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1958-1959. Field checked 1960. Revised from aerial photographs taken 1969. Field checked 1970

Polyconic projection. 1927 North American datum
10,000-foot grid based on Virginia coordinate system, south zone
1000-meter Universal Transverse Mercator grid ticks, zone 17, shown in blue

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked

UTM GRID AND 1970 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
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AND VIRGINIA DIVISION OF MINERAL RESOURCES, CHARLOTTESVILLE, VIRGINIA 22903
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

ROAD CLASSIFICATION

Primary highway hard surface — Light-duty road, hard or improved surface
Secondary highway hard surface — Unimproved road
Interstate Route — U. S. Route — State Route

FERNCLIFF, VA.
NE/4 COLUMBIA 15' QUADRANGLE
N3752.5—W7800/7.5

1970

AMS 5399 I NE-SERIES V834

PUBLICATION 147

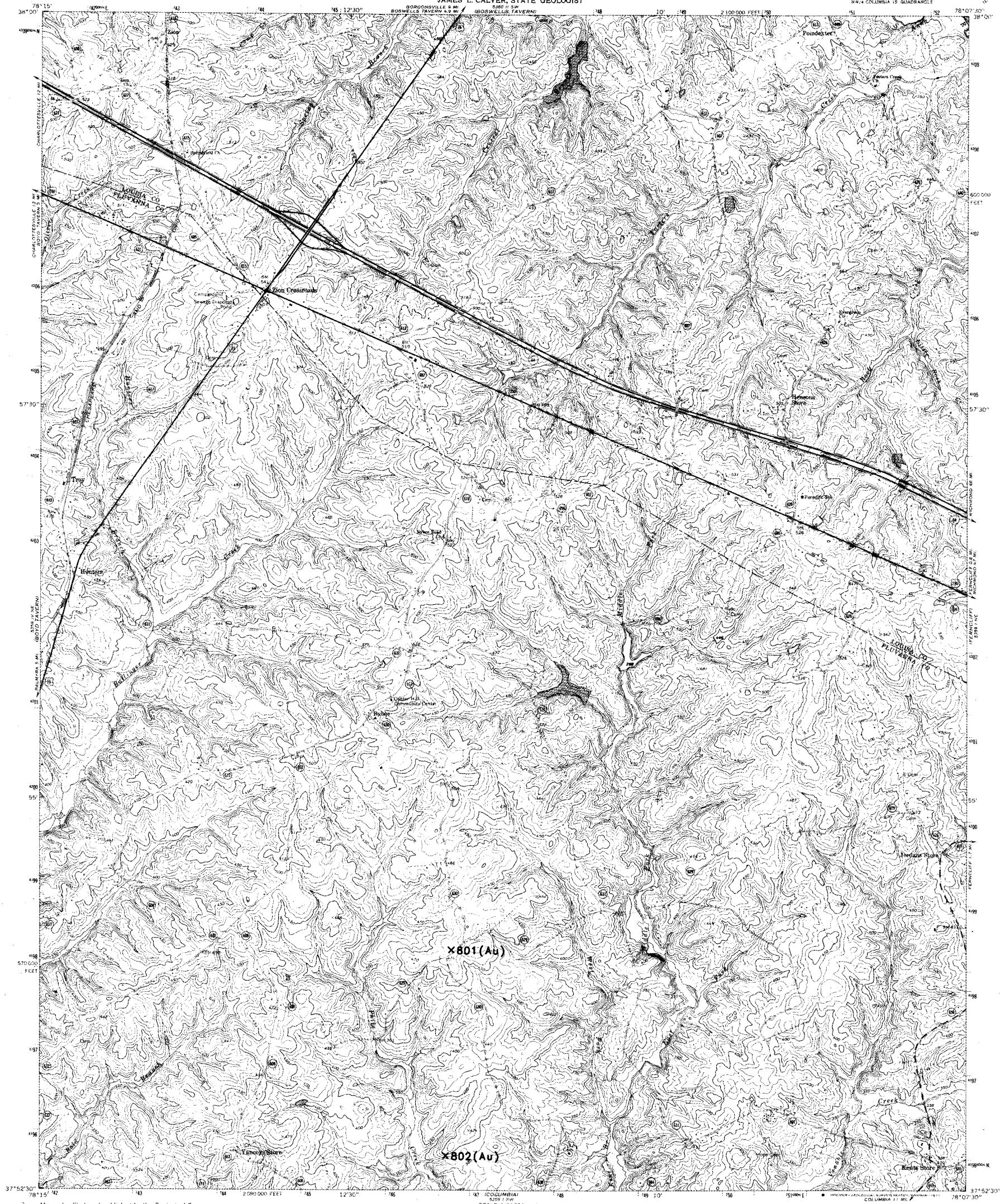
Table 12. Metallic mines, prospects, and occurrences in Zion Crossroads 7.5-minute quadrangle.

LOCALITY	LATITUDE	LONGITUDE	COUNTY	QUADRANGLE	PRINCIPAL COMMODITY	TYPE OF OPENING	NAME	REFERENCES
152B-801	37.900509	-78.194450	Fluvanna	Zion Crossroads	gold	prospect pit	unknown	50
152B-802	37.878532	-78.195198	Fluvanna	Zion Crossroads	gold	prospect pit	unknown	50

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

COMMONWEALTH OF VIRGINIA
DIVISION OF MINERAL RESOURCES
JAMES L. CALVER, STATE GEOLOGIST

ZION CROSSROADS QUADRANGLE
VIRGINIA
7.5 MINUTE SERIES (TOPOGRAPHIC)
NW/4 COLUMBIA 15 QUADRANGLE



Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1958–1959. Field checked 1959–1960. Revised from aerial photographs taken 1969. Field checked 1970

Polyconic projection. 1927 North American datum
10,000-foot grid based on Virginia coordinate system, south zone
1000-meter Universal Transverse Mercator grid ticks, zone 17, shown in blue

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked

Revisions shown in purple compiled in cooperation with Commonwealth of Virginia agencies from aerial photographs taken 1974. This information not field checked

UTM GRID AND 1974 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, RESTON, VIRGINIA 22092
AND VIRGINIA DIVISION OF MINERAL RESOURCES, CHARLOTTESVILLE, VIRGINIA 22903
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

ROAD CLASSIFICATION

Primary highway, hard surface — Light-duty road, hard or improved surface
Secondary highway, hard surface — Unimproved road
Interstate Route — U. S. Route — State Route

ZION CROSSROADS, VA.
NW/4 COLUMBIA 15' QUADRANGLE
N3752.5—W7807.5/7.5

1970
PHOTOREVISED 1974
AMS 5359 I NW—SERIES V834

Table 13. Metallic mines, prospects, and occurrences in Columbia 7.5-minute quadrangle.

LOCALITY	LATITUDE	LONGITUDE	COUNTY	QUADRANGLE	PRINCIPAL COMMODITY	TYPE OF OPENING	NAME	REFERENCES
152C-101	37.842110	-78.229622	Fluvanna	Columbia	gold	prospect pit	Page	56, 58, 53, 59, 63, 19
152C-102	37.845528	-78.229805	Fluvanna	Columbia	gold	prospect pit	Page	56, 58, 53, 59, 63, 19
152C-103	37.845192	-78.227669	Fluvanna	Columbia	gold	prospect pit	Page	56, 58, 53, 59, 63, 19
152C-104	37.846760	-78.227188	Fluvanna	Columbia	gold	prospect pit	Page	56, 58, 53, 59, 63, 19
152C-105	37.847878	-78.226624	Fluvanna	Columbia	gold	shaft	Page	56, 58, 53, 59, 63, 19
152C-106	37.849064	-78.227661	Fluvanna	Columbia	gold	adit	Page	56, 58, 53, 59, 63, 19
152C-107	37.848152	-78.227295	Fluvanna	Columbia	gold	adit	Page	56, 58, 53, 59, 63, 19
152C-108	37.858742	-78.223305	Fluvanna	Columbia	gold	prospect pit	unknown	unpublished MRV base map
152C-109	37.858509	-78.221611	Fluvanna	Columbia	gold	prospect pit	unknown	unpublished MRV base map
152C-110	37.861122	-78.221169	Fluvanna	Columbia	gold	adit	Stockton	58, 5, 53, 59, 50
152C-111	37.863304	-78.217644	Fluvanna	Columbia	gold	prospect pit	unknown	unpublished MRV base map
152C-302	37.838100	-78.143761	Fluvanna	Columbia	gold	open pit	Cassell	58, 53, 59, 50
152C-601	37.812027	-78.147255	Fluvanna	Columbia	gold	shaft	Cocke (Cox)	58, 53, 28, 50, 8
152C-602	37.809746	-78.145164	Fluvanna	Columbia	gold	prospect pit	unknown	unpublished MRV base map
152C-603	37.810055	-78.143700	Fluvanna	Columbia	gold	prospect pit	unknown	unpublished MRV base map
152C-604	37.821316	-78.136871	Fluvanna	Columbia	gold	open pit	Fountain	58, 53, 28, 8, 50
152C-605	37.826511	-78.130600	Fluvanna	Columbia	gold	prospect pit	Mosby	58, 53, 28, 8, 50
152C-606	37.827080	-78.128685	Fluvanna	Columbia	gold	prospect pit	Mosby	58, 53, 28, 8, 50
152C-607	37.824905	-78.128990	Fluvanna	Columbia	gold	shaft	Mosby	58, 53, 28, 8, 50
152C-608	37.825806	-78.128014	Fluvanna	Columbia	gold	shaft	Mosby	58, 53, 28, 8, 50
152C-609	37.826721	-78.126907	Fluvanna	Columbia	gold	shaft	Mosby	58, 53, 28, 8, 50
152C-610	37.828728	-78.125275	Fluvanna	Columbia	gold	prospect pit	Lemuel (Marks)	58
152C-613	37.807590	-78.134300	Fluvanna	Columbia	gold	prospect pit	unknown	unpublished MRV base map
152C-614	37.807522	-78.125877	Goochland	Columbia	gold	prospect pit	unknown	unpublished MRV base map
152C-701	37.760937	-78.225571	Fluvanna	Columbia	gold	shaft	unknown	unpublished MRV base map
152C-902	37.787285	-78.153160	Fluvanna	Columbia	gold	shaft	unknown	unpublished MRV base map
152C-903	37.785358	-78.149117	Fluvanna	Columbia	gold	prospect pit	unknown	unpublished MRV base map
152C-904	37.785767	-78.143585	Fluvanna	Columbia	gold	prospect pit	unknown	unpublished MRV base map
152C-905	37.777992	-78.127174	Goochland	Columbia	gold	prospect pit	Dillard	58, 53, 3, 59
152C-906	37.779190	-78.125839	Goochland	Columbia	gold	placer mine	Ruth	58, 53, 3
152C-907	37.780842	-78.126518	Goochland	Columbia	gold	placer mine	Bertha & Edith	58, 3, 53, 51, 59
152C-908	37.782516	-78.125984	Goochland	Columbia	gold	placer mine	Bertha & Edith	58, 3, 53, 51, 59
152C-909	37.783901	-78.126564	Goochland	Columbia	gold	prospect pit	Bertha & Edith	58, 3, 53, 51, 59

Table 13. Metallic mines, prospects, and occurrences in Columbia 7.5-minute quadrangle.

LOCALITY	LATITUDE	LONGITUDE	COUNTY	QUADRANGLE	PRINCIPAL COMMODITY	TYPE OF OPENING	NAME	REFERENCES
152C-910	37.787945	-78.125916	Goochland	Columbia	gold	open pit	Bertha & Edith	58, 3, 53, 51, 59
152C-911	37.789448	-78.127113	Goochland	Columbia	gold	prospect pit	Bertha & Edith	58, 3, 53, 51, 59

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

COMMONWEALTH OF VIRGINIA
DIVISION OF MINERAL RESOURCES
JAMES L. CALVER, STATE GEOLOGIST

COLUMBIA QUADRANGLE
VIRGINIA
7.5 MINUTE SERIES (TOPOGRAPHIC)
SW/4 COLUMBIA 15' QUADRANGLE

Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1958–1959. Field checked 1959. Revised from aerial photographs taken 1969. Field checked 1970

Polyconic projection. 1927 North American datum
10,000-foot grid based on Virginia coordinate system, south zone
1000-meter Universal Transverse Mercator grid ticks, zone 17, shown in blue

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked

UTM GRID AND 1970 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, WASHINGTON, D. C. 20242
AND VIRGINIA DIVISION OF MINERAL RESOURCES, CHARLOTTESVILLE, VIRGINIA 22903
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

ROAD CLASSIFICATION

Primary highway, hard surface — Light-duty road, hard or improved surface
Secondary highway, hard surface — Unimproved road
Interstate Route — U. S. Route — State Route

COLUMBIA, VA.
SW/4 COLUMBIA 15' QUADRANGLE
N3745—W7807.5/7.5

1970

AMS 5359 I SW—SERIES V834

Table 14. Metallic mines, prospects, and occurrences in Caledonia 7.5-minute quadrangle.

LOCALITY	LATITUDE	LONGITUDE	COUNTY	QUADRANGLE	PRINCIPAL COMMODITY	TYPE OF OPENING	NAME	REFERENCES
152D-101	37.863949	-78.107475	Fluvanna	Caledonia	gold	prospect pit	unknown	unpublished MRV base map
152D-102	37.865513	-78.102661	Fluvanna	Caledonia	gold	shaft	Shaw	58, 53, 59, 50
152D-103	37.863384	-78.103767	Fluvanna	Caledonia	gold	placer mine	Shaw	58, 53, 59, 50
152D-104	37.862854	-78.100952	Fluvanna	Caledonia	gold	prospect pit	unknown	unpublished MRV base map
152D-105	37.861835	-78.099686	Fluvanna	Caledonia	gold	prospect pit	unknown	unpublished MRV base map
152D-106	37.864090	-78.098244	Fluvanna	Caledonia	gold	prospect pit	Bowles	58, 53, 59, 50, 19
152D-107	37.864258	-78.096634	Fluvanna	Caledonia	gold	prospect pit	Bowles	58, 53, 59, 50, 19
152D-108	37.866776	-78.094963	Fluvanna	Caledonia	gold	placer mine	Bowles	58, 53, 59, 50, 19
152D-109	37.862347	-78.094933	Fluvanna	Caledonia	gold	prospect pit	Bowles	58, 53, 59, 50, 19
152D-110	37.863945	-78.094551	Fluvanna	Caledonia	gold	prospect pit	Bowles	58, 53, 59, 50, 19
152D-111	37.864559	-78.095238	Fluvanna	Caledonia	gold	shaft	Bowles	58, 53, 59, 50, 19
152D-112	37.865147	-78.094749	Fluvanna	Caledonia	gold	shaft	Bowles	58, 53, 59, 50, 19
152D-113	37.865604	-78.094406	Fluvanna	Caledonia	gold	shaft	Bowles	58, 53, 59, 50, 19
152D-114	37.867096	-78.093208	Fluvanna	Caledonia	gold	prospect pit	Bowles	58, 53, 59, 50, 19
152D-115	37.835770	-78.117134	Fluvanna	Caledonia	gold	open pit	Jennings	58, 49, 53
152D-116	37.837925	-78.114998	Fluvanna	Caledonia	gold	prospect pit	unknown	unpublished MRV base map
152D-117	37.837025	-78.114395	Fluvanna	Caledonia	gold	shaft	unknown	unpublished MRV base map
152D-118	37.837593	-78.113373	Fluvanna	Caledonia	gold	prospect pit	unknown	unpublished MRV base map
152D-119	37.838467	-78.111954	Fluvanna	Caledonia	gold	shaft	Scotia	58, 53, 59, 50, 17, 7
152D-120	37.839573	-78.110970	Fluvanna	Caledonia	gold	adit	Scotia	58, 53, 59, 50, 17, 7
152D-121	37.840721	-78.109200	Fluvanna	Caledonia	gold	shaft	Scotia	58, 53, 59, 50, 17, 7
152D-122	37.840992	-78.108597	Fluvanna	Caledonia	gold	shaft	Scotia	58, 53, 59, 50, 17, 7
152D-123	37.841431	-78.107933	Fluvanna	Caledonia	gold	shaft	Scotia	58, 53, 59, 50, 17, 7
152D-124	37.842274	-78.106552	Fluvanna	Caledonia	gold	shaft	Tellurium	56, 58, 3, 53, 28, 59, 7, 19, 17
152D-125	37.843037	-78.104919	Fluvanna	Caledonia	gold	shaft	Tellurium	56, 58, 3, 53, 28, 59, 7, 19, 17
152D-126	37.843395	-78.104187	Fluvanna	Caledonia	gold	shaft	Tellurium	56, 58, 3, 53, 28, 59, 7, 19, 17
152D-127	37.843891	-78.103325	Fluvanna	Caledonia	gold	shaft	Tellurium	56, 58, 3, 53, 28, 59, 7, 19, 17
152D-128	37.844173	-78.102661	Goochland	Caledonia	gold	shaft	Tellurium	56, 58, 3, 53, 28, 59, 7, 19, 17
152D-129	37.844612	-78.101967	Goochland	Caledonia	gold	shaft	Tellurium	56, 58, 3, 53, 28, 59, 7, 19, 17
152D-130	37.845493	-78.100426	Goochland	Caledonia	gold	adit	Tellurium	56, 58, 3, 53, 28, 59, 7, 19, 17
152D-131	37.846191	-78.098587	Goochland	Caledonia	gold	shaft	Bowles	58, 53, 59, 50, 19
152D-132	37.846813	-78.097328	Goochland	Caledonia	gold	shaft	Bowles	58, 53, 59, 50, 19
152D-133	37.847473	-78.096100	Goochland	Caledonia	gold	shaft	Bowles	58, 53, 59, 50, 19
152D-134	37.848286	-78.094650	Goochland	Caledonia	gold	shaft	Bowles	58, 53, 59, 50, 19
152D-135	37.849216	-78.092827	Goochland	Caledonia	gold	prospect pit	Bowles	58, 53, 59, 50, 19
152D-136	37.851276	-78.086723	Goochland	Caledonia	gold	shaft	Tabscott Road	55
152D-137	37.852417	-78.083992	Goochland	Caledonia	gold	prospect pit	Tabscott Road	55
152D-138	37.849037	-78.084236	Goochland	Caledonia	gold	prospect pit	Moss	56, 51, 63, 58, 3, 41, 53, 59, 19
152D-139	37.844238	-78.089111	Goochland	Caledonia	gold	prospect pit	Moss	56, 51, 63, 58, 3, 41, 53, 59, 19
152D-140	37.844685	-78.088120	Goochland	Caledonia	gold	shaft	Moss	56, 51, 63, 58, 3, 41, 53, 59, 19
152D-141	37.845409	-78.087090	Goochland	Caledonia	gold	prospect pit	Moss	56, 51, 63, 58, 3, 41, 53, 59, 19
152D-142	37.846081	-78.085999	Goochland	Caledonia	gold	shaft	Moss	56, 51, 63, 58, 3, 41, 53, 59, 19
152D-143	37.847137	-78.084267	Goochland	Caledonia	gold	prospect pit	Moss	56, 51, 63, 58, 3, 41, 53, 59, 19
152D-144	37.833527	-78.096268	Goochland	Caledonia	gold	prospect pit	unknown	unpublished MRV base map
152D-145	37.834557	-78.093536	Goochland	Caledonia	gold	open pit	Fisher	58, 53, 7, 63
152D-146	37.838184	-78.087280	Goochland	Caledonia	gold	prospect pit	unknown	unpublished MRV base map
152D-147	37.839985	-78.084702	Goochland	Caledonia	gold	prospect pit	unknown	unpublished MRV base map
152D-148	37.853352	-78.104156	Fluvanna	Caledonia	gold	prospect pit	McGloam	58, 53, 59, 50
152D-149	37.853416	-78.103348	Fluvanna	Caledonia	gold	shaft	McGloam	58, 53, 59, 50
152D-150	37.854370	-78.100197	Fluvanna	Caledonia	gold	shaft	Red	unpublished MRV base map
152D-151	37.855072	-78.100288	Fluvanna	Caledonia	gold	shaft	Red	unpublished MRV base map
152D-152	37.844513	-78.103439	Fluvanna	Caledonia	gold	shaft	Tellurium	56, 58, 3, 53, 28, 59, 7, 19, 17
152D-153	37.844990	-78.102814	Fluvanna	Caledonia	gold	shaft	Tellurium	56, 58, 3, 53, 28, 59, 7, 19, 17
152D-154	37.844536	-78.096382	Goochland	Caledonia	gold	prospect pit	unknown	unpublished MRV base map
152D-155	37.845612	-78.093231	Goochland	Caledonia	gold	prospect pit	unknown	unpublished MRV base map
152D-156	37.846645	-78.090660	Goochland	Caledonia	gold	prospect pit	unknown	unpublished MRV base map
152D-201	37.847931	-78.082664	Goochland	Caledonia	gold	prospect pit	Busby	58, 3, 59, 53, 8, 19
152D-202	37.849270	-78.080856	Goochland	Caledonia	gold	prospect pit	Busby	58, 3, 59, 53, 8, 19
152D-203	37.850914	-78.079132	Goochland	Caledonia	gold	shaft	Busby	58, 3, 59, 53, 8, 19
152D-204	37.857681	-78.076897	Goochland	Caledonia	gold	prospect pit	unknown	unpublished MRV base map
152D-205	37.855621	-78.075325	Goochland	Caledonia	gold	prospect pit	unknown	unpublished MRV base map
152D-206	37.855637	-78.072128	Goochland	Caledonia	gold	open pit	Payne	58, 3, 53, 39, 59
152D-207	37.862350	-78.064316	Goochland	Caledonia	gold	prospect pit	unknown	unpublished MRV base map
152D-208	37.866055	-78.058525	Goochland	Caledonia	gold	shaft	Benton	58, 3, 53, 59
152D-209	37.871330	-78.053215	Goochland	Caledonia	gold	prospect pit	unknown	unpublished MRV base map
152D-210	37.865135	-78.056442	Goochland	Caledonia	gold	shaft	Fleming	58, 3, 59, 19, 53, 8

Table 14. Metallic mines, prospects, and occurrences in Caledonia 7.5-minute quadrangle.

LOCALITY	LATITUDE	LONGITUDE	COUNTY	QUADRANGLE	PRINCIPAL COMMODITY	TYPE OF OPENING	NAME	REFERENCES
152D-211	37.865932	-78.055290	Goochland	Caledonia	gold	open pit	Fleming	58, 3, 59, 19, 53, 8
152D-212	37.866806	-78.054222	Goochland	Caledonia	gold	prospect pit	Fleming	58, 3, 59, 19, 53, 8
152D-213	37.867626	-78.053017	Goochland	Caledonia	gold	prospect pit	Fleming	58, 3, 59, 19, 53, 8
152D-214	37.868679	-78.051323	Goochland	Caledonia	gold	prospect pit	Fleming	58, 3, 59, 19, 53, 8
152D-215	37.868858	-78.050308	Goochland	Caledonia	gold	shaft	Fleming	58, 3, 59, 19, 53, 8
152D-216	37.870003	-78.048569	Goochland	Caledonia	gold	prospect pit	Fleming	58, 3, 59, 19, 53, 8
152D-217	37.870876	-78.043198	Goochland	Caledonia	gold	prospect pit	Shannon Hill	58, 53, 3, 59, 7
152D-218	37.873810	-78.042519	Goochland	Caledonia	gold	prospect pit	Shannon Hill	58, 53, 3, 59, 7
152D-219	37.854454	-78.059364	Goochland	Caledonia	gold	prospect pit	unknown	unpublished MRV base map
152D-220	37.856365	-78.054581	Goochland	Caledonia	gold	shaft	Waller	56, 58, 3, 53, 59, 7, 19, 17
152D-221	37.857635	-78.054466	Goochland	Caledonia	gold	open pit	Waller	56, 58, 3, 53, 59, 7, 19, 17
152D-222	37.859093	-78.052612	Goochland	Caledonia	gold	prospect pit	Waller	56, 58, 3, 53, 59, 7, 19, 17
152D-223	37.842960	-78.080139	Goochland	Caledonia	gold	placer mine	Pryor	58, 53, 3, 59
152D-224	37.844288	-78.078979	Goochland	Caledonia	gold	shaft	Pryor	58, 53, 3, 59
152D-301	37.871975	-78.039864	Goochland	Caledonia	gold	prospect pit	Shannon Hill	58, 53, 3, 59, 7
152D-302	37.873821	-78.041260	Goochland	Caledonia	gold	shaft	Shannon Hill	58, 53, 3, 59, 7
152D-303	37.874493	-78.040359	Goochland	Caledonia	gold	shaft	Shannon Hill	58, 53, 3, 59, 7
152D-401	37.792229	-78.122993	Goochland	Caledonia	gold	placer mine	Bertha & Edith	58, 3, 53, 51, 59
152D-402	37.794441	-78.122757	Goochland	Caledonia	gold	placer mine	Bertha & Edith	58, 3, 53, 51, 59
152D-403	37.798016	-78.124695	Goochland	Caledonia	gold	prospect pit	unknown	unpublished MRV base map
152D-404	37.799934	-78.123962	Goochland	Caledonia	gold	prospect pit	unknown	unpublished MRV base map
152D-405	37.814579	-78.119743	Goochland	Caledonia	gold	prospect pit	unknown	unpublished MRV base map
152D-406	37.815380	-78.114059	Goochland	Caledonia	gold	open pit	Grannison	58, 3, 53, 59, 17
152D-407	37.827747	-78.117538	Fluvanna	Caledonia	gold	prospect pit	unknown	unpublished MRV base map
152D-408	37.829807	-78.114174	Fluvanna	Caledonia	gold	shaft	Scotia	58, 53, 59, 50, 17, 7
152D-409	37.830200	-78.113304	Fluvanna	Caledonia	gold	shaft	Scotia	58, 53, 59, 50, 17, 7
152D-410	37.799576	-78.118576	Goochland	Caledonia	gold	prospect pit	Bertha & Edith	58, 3, 53, 51, 59
152D-411	37.801155	-78.116821	Goochland	Caledonia	gold	prospect pit	Bertha & Edith	58, 3, 53, 51, 59
152D-412	37.804382	-78.119545	Goochland	Caledonia	gold	prospect pit	Kent	58, 53, 28, 59, 3
152D-413	37.805698	-78.117661	Goochland	Caledonia	gold	prospect pit	Kent	58, 53, 28, 59, 3
152D-414	37.806931	-78.116409	Goochland	Caledonia	gold	prospect pit	Kent	58, 53, 28, 59, 3
152D-415	37.807480	-78.114868	Goochland	Caledonia	gold	placer mine	Grannison	58, 3, 53, 59, 17
152D-416	37.809093	-78.114052	Goochland	Caledonia	gold	placer mine	Grannison	58, 3, 53, 59, 17

Table 14. Metallic mines, prospects, and occurrences in Caledonia 7.5-minute quadrangle.

LOCALITY	LATITUDE	LONGITUDE	COUNTY	QUADRANGLE	PRINCIPAL COMMODITY	TYPE OF OPENING	NAME	REFERENCES
152D-417	37.810329	-78.112785	Goochland	Caledonia	gold	open pit	Grannison	58, 3, 53, 59, 17
152D-418	37.810944	-78.107971	Goochland	Caledonia	gold	shaft	Grannison	58, 3, 53, 59, 17
152D-419	37.807106	-78.109756	Goochland	Caledonia	gold	prospect pit	Atmore	58, 53, 59, 3, 17, 8
152D-420	37.807266	-78.113152	Goochland	Caledonia	gold	placer mine	Atmore	58, 53, 59, 3, 17, 8
152D-421	37.805626	-78.113068	Goochland	Caledonia	gold	placer mine	Kent	58, 53, 28, 59, 3
152D-422	37.804211	-78.112740	Goochland	Caledonia	gold	placer mine	Kent	58, 53, 28, 59, 3
152D-423	37.802322	-78.111862	Goochland	Caledonia	gold	placer mine	Kent	58, 53, 28, 59, 3
152D-424	37.803604	-78.109329	Goochland	Caledonia	gold	placer mine	Kent	58, 53, 28, 59, 3
152D-425	37.804729	-78.106873	Goochland	Caledonia	gold	placer mine	Kent	58, 53, 28, 59, 3
152D-426	37.806946	-78.105026	Goochland	Caledonia	gold	prospect pit	Kent	58, 53, 28, 59, 3
152D-427	37.812485	-78.101524	Goochland	Caledonia	gold	prospect pit	unknown	unpublished MRV base map
152D-428	37.813599	-78.109055	Goochland	Caledonia	gold	placer mine	unknown	unpublished MRV base map
152D-429	37.815090	-78.107597	Goochland	Caledonia	gold	prospect pit	unknown	unpublished MRV base map
152D-430	37.816467	-78.106873	Goochland	Caledonia	gold	prospect pit	unknown	unpublished MRV base map
152D-431	37.817768	-78.106422	Goochland	Caledonia	gold	open pit	unknown	unpublished MRV base map
152D-432	37.812572	-78.097153	Goochland	Caledonia	gold	prospect pit	Duke	58, 53, 28, 3, 8
152D-433	37.813648	-78.096046	Goochland	Caledonia	gold	prospect pit	Duke	58, 53, 28, 3, 8
152D-434	37.815350	-78.094269	Goochland	Caledonia	gold	placer mine	Morgan	58, 3, 53, 59, 8
152D-435	37.817219	-78.092934	Goochland	Caledonia	gold	open pit	Morgan	58, 3, 53, 59, 8
152D-436	37.819111	-78.091904	Goochland	Caledonia	gold	prospect pit	Morgan	58, 3, 53, 59, 8
152D-437	37.820827	-78.092079	Goochland	Caledonia	gold	prospect pit	Young American	56, 58, 3, 53, 59, 19, 17
152D-438	37.820408	-78.091087	Goochland	Caledonia	gold	prospect pit	Young American	56, 58, 3, 53, 59, 19, 17
152D-439	37.822014	-78.089836	Goochland	Caledonia	gold	prospect pit	Young American	56, 58, 3, 53, 59, 19, 17
152D-440	37.823254	-78.088661	Goochland	Caledonia	gold	open pit	Young American	56, 58, 3, 53, 59, 19, 17
152D-441	37.824001	-78.087677	Goochland	Caledonia	gold	shaft	Young American	56, 58, 3, 53, 59, 19, 17
152D-442	37.825298	-78.086815	Goochland	Caledonia	gold	prospect pit	Omohhundro	58, 53, 3
152D-443	37.825569	-78.087852	Goochland	Caledonia	gold	prospect pit	Omohhundro	58, 53, 3
152D-444	37.825367	-78.090446	Goochland	Caledonia	gold	placer mine	Omohhundro	58, 53, 3
152D-445	37.811424	-78.093102	Goochland	Caledonia	gold	prospect pit	Toler	58, 53, 3, 28, 7
152D-446	37.810013	-78.090691	Goochland	Caledonia	gold	prospect pit	Big Bird	58, 3, 53, 59
152D-447	37.811745	-78.090134	Goochland	Caledonia	gold	open pit	Big Bird	58, 3, 53, 59
152D-448	37.814247	-78.089783	Goochland	Caledonia	gold	open pit	Belzoro	58, 3, 53, 8, 59, 19
152D-449	37.816792	-78.088318	Goochland	Caledonia	gold	prospect pit	J. Thompson	58, 53, 28, 3, 8

Table 14. Metallic mines, prospects, and occurrences in Caledonia 7.5-minute quadrangle.

LOCALITY	LATITUDE	LONGITUDE	COUNTY	QUADRANGLE	PRINCIPAL COMMODITY	TYPE OF OPENING	NAME	REFERENCES
152D-450	37.818810	-78.087730	Goochland	Caledonia	gold	open pit	J. Thompson	58, 53, 28, 3, 8
152D-451	37.822048	-78.086884	Goochland	Caledonia	gold	shaft	Young American	56, 58, 3, 53, 59, 19, 17
152D-452	37.822456	-78.084129	Goochland	Caledonia	gold	placer mine	D. Johnson	58
152D-453	37.801704	-78.093636	Goochland	Caledonia	iron	prospect pit	unknown	unpublished MRV base map
152D-501	37.813656	-78.080887	Goochland	Caledonia	gold	placer mine	Collins	58, 3, 53, 51, 59, 8, 19
152D-502	37.815430	-78.080727	Goochland	Caledonia	gold	shaft	Collins	58, 3, 53, 51, 59, 8, 19
152D-503	37.816311	-78.080666	Goochland	Caledonia	gold	shaft	Collins	58, 3, 53, 51, 59, 8, 19
152D-504	37.817539	-78.080505	Goochland	Caledonia	gold	placer mine	Collins	58, 3, 53, 51, 59, 8, 19
152D-505	37.814781	-78.077805	Goochland	Caledonia	gold	placer mine	Collins	58, 3, 53, 51, 59, 8, 19
152D-506	37.809086	-78.082703	Goochland	Caledonia	gold	prospect pit	unknown	unpublished MRV base map
152D-507	37.798168	-78.076164	Goochland	Caledonia	iron	prospect pit	unknown	unpublished MRV base map
152D-508	37.801598	-78.073997	Goochland	Caledonia	iron	prospect pit	unknown	unpublished MRV base map
152D-701	37.784386	-78.124565	Goochland	Caledonia	gold	placer mine	Bertha & Edith	58, 3, 53, 51, 59
152D-702	37.784626	-78.123192	Goochland	Caledonia	gold	open pit	Bertha & Edith	58, 3, 53, 51, 59
152D-703	37.785854	-78.123260	Goochland	Caledonia	gold	placer mine	Bertha & Edith	58, 3, 53, 51, 59
152D-704	37.787373	-78.121788	Goochland	Caledonia	gold	placer mine	Bertha & Edith	58, 3, 53, 51, 59
152D-705	37.785965	-78.124565	Goochland	Caledonia	gold	adit	Bertha & Edith	58, 3, 53, 51, 59
152D-706	37.787384	-78.124847	Goochland	Caledonia	gold	open pit	Bertha & Edith	58, 3, 53, 51, 59
152D-707	37.788246	-78.123955	Goochland	Caledonia	gold	shaft	Bertha & Edith	58, 3, 53, 51, 59
152D-708	37.790180	-78.124275	Goochland	Caledonia	gold	adit	Bertha & Edith	58, 3, 53, 51, 59

UNITED STATES
DEPARTMENT OF THE INTERIOR
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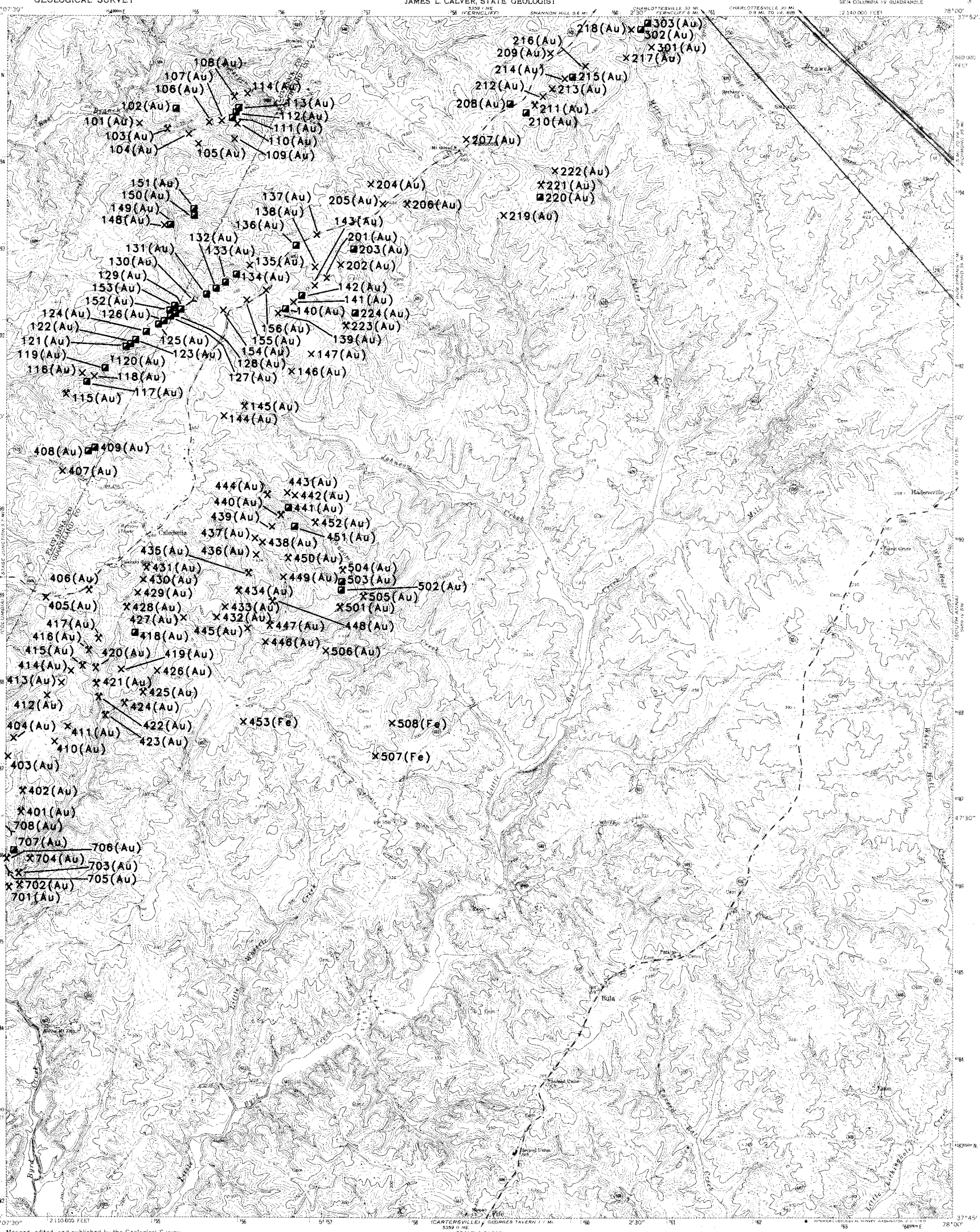
COMMONWEALTH OF VIRGINIA
DIVISION OF MINERAL RESOURCES
JAMES L. CALVER, STATE GEOLOGIST

CALEDONIA QUADRANGLE
VIRGINIA
7.5 MINUTE SERIES (TOPOGRAPHIC)
SE/4 COLUMBIA 15' QUADRANGLE



Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1958-1959. Field checked 1960. Revised from aerial photographs taken 1969. Field checked 1970

Polyconic projection. 1927 North American datum
10,000-foot grid based on Virginia coordinate system, south zone
1000-meter Universal Transverse Mercator grid ticks, zone 17, shown in blue

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked

UTM GRID AND 1970 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
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AND VIRGINIA DIVISION OF MINERAL RESOURCES, CHARLOTTESVILLE, VIRGINIA 22903
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

ROAD CLASSIFICATION

Primary highway, hard surface — Light duty road, hard or improved surface
Secondary highway, hard surface — Unimproved road
Interstate Route — U. S. Route — State Route

CALEDONIA, VA.
SE/4 COLUMBIA 15' QUADRANGLE
N3745—W7800/7.5

1970

AMS 5359 I SE—SERIES V834

Table 15. Metallic mines, prospects, and occurrences in Palmyra 7.5-minute quadrangle.

LOCALITY	LATITUDE	LONGITUDE	COUNTY	QUADRANGLE	PRINCIPAL COMMODITY	TYPE OF OPENING	NAME	REFERENCES
153D-901	37.786034	-78.286583	Fluvanna	Palmyra	gold	shaft	Hughes	58, 53, 59, 28, 50, 63, 19, 8
153D-902	37.786961	-78.288345	Fluvanna	Palmyra	gold	shaft	Hughes	58, 53, 59, 28, 50, 63, 19, 8
153D-903	37.787910	-78.287216	Fluvanna	Palmyra	gold	shaft	Hughes	58, 53, 59, 28, 50, 63, 19, 8
153D-904	37.789516	-78.286133	Fluvanna	Palmyra	gold	prospect pit	Hughes	58, 53, 59, 28, 50, 63, 19, 8
153D-905	37.789295	-78.284584	Fluvanna	Palmyra	gold	prospect pit	Hughes	58, 53, 59, 28, 50, 63, 19, 8
153D-907	37.776600	-78.277702	Fluvanna	Palmyra	iron	prospect pit	unknown	unpublished MRV base map
153D-908	37.775528	-78.277390	Fluvanna	Palmyra	iron	prospect pit	unknown	unpublished MRV base map
153D-909	37.779133	-78.257957	Fluvanna	Palmyra	gold	adit	Snead	56, 58, 53, 59, 8, 50
153D-910	37.780010	-78.256760	Fluvanna	Palmyra	gold	open pit	Snead	56, 58, 53, 59, 8, 50
153D-911	37.780853	-78.255081	Fluvanna	Palmyra	gold	open pit	Snead	56, 58, 53, 59, 8, 50
153D-912	37.779419	-78.253899	Fluvanna	Palmyra	gold	prospect pit	Snead	56, 58, 53, 59, 8, 50
153D-913	37.781963	-78.253036	Fluvanna	Palmyra	gold	prospect pit	Snead	56, 58, 53, 59, 8, 50

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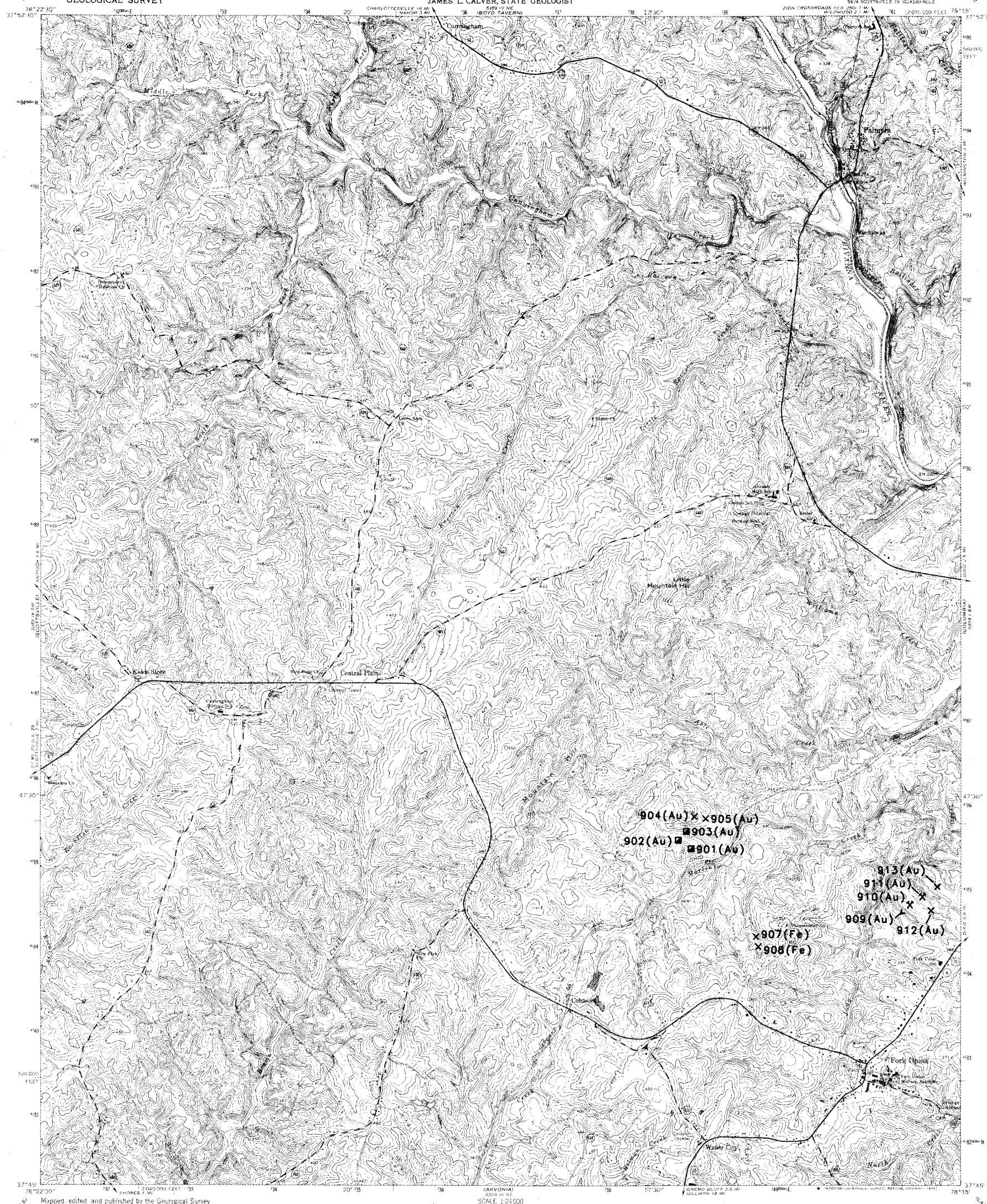
DIVISION OF MINERAL RESOURCES
JAMES L. CALVER, STATE GEOLOGIST

PALMYRA QUADRANGLE
VIRGINIA – FLUVANNA CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
SE/4 SCOTTSVILLE 15' QUADRANGLE



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Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1964. Field checked 1967

Polyconic projection. 1927 North American datum
10,000 foot grid based on Virginia coordinate system, south zone
1000-meter Universal Transverse Mercator grid ticks, zone 17, shown in blue

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked

Revisions shown in purple compiled in cooperation with Commonwealth of Virginia agencies from aerial photographs taken 1974. This information not field checked

UTM GRID AND 1974 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

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AND VIRGINIA DIVISION OF MINERAL RESOURCES, CHARLOTTESVILLE, VIRGINIA 22903
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

ROAD CLASSIFICATION
Heavy duty — Light duty
Medium duty — Unimproved dirt
U. S. Route — State Route

PALMYRA, VA.
SE/4 SCOTTSVILLE 15' QUADRANGLE
N3745—W7815/7.5

1967
PHOTOREVISED 1974
AMS 5359 IV SE—SERIES V834

Table 16. Metallic mines, prospects, and occurrences in Brokenburg 7.5-minute quadrangle.

LOCALITY	LATITUDE	LONGITUDE	COUNTY	QUADRANGLE	PRINCIPAL COMMODITY	TYPE OF OPENING	NAME	REFERENCES
170B-101	38.239117	-77.738342	Spotsylvania	Brokenburg	gold	shaft	Whitehall	56, 58, 7, 5, 53, 51, 28, 63, 22, 49
170B-102	38.247375	-77.727684	Spotsylvania	Brokenburg	gold	prospect pit	Randolph	58, 5, 53, 28, 41
170B-401	38.208103	-77.747284	Spotsylvania	Brokenburg	gold	prospect pit	Powell's	58, 53

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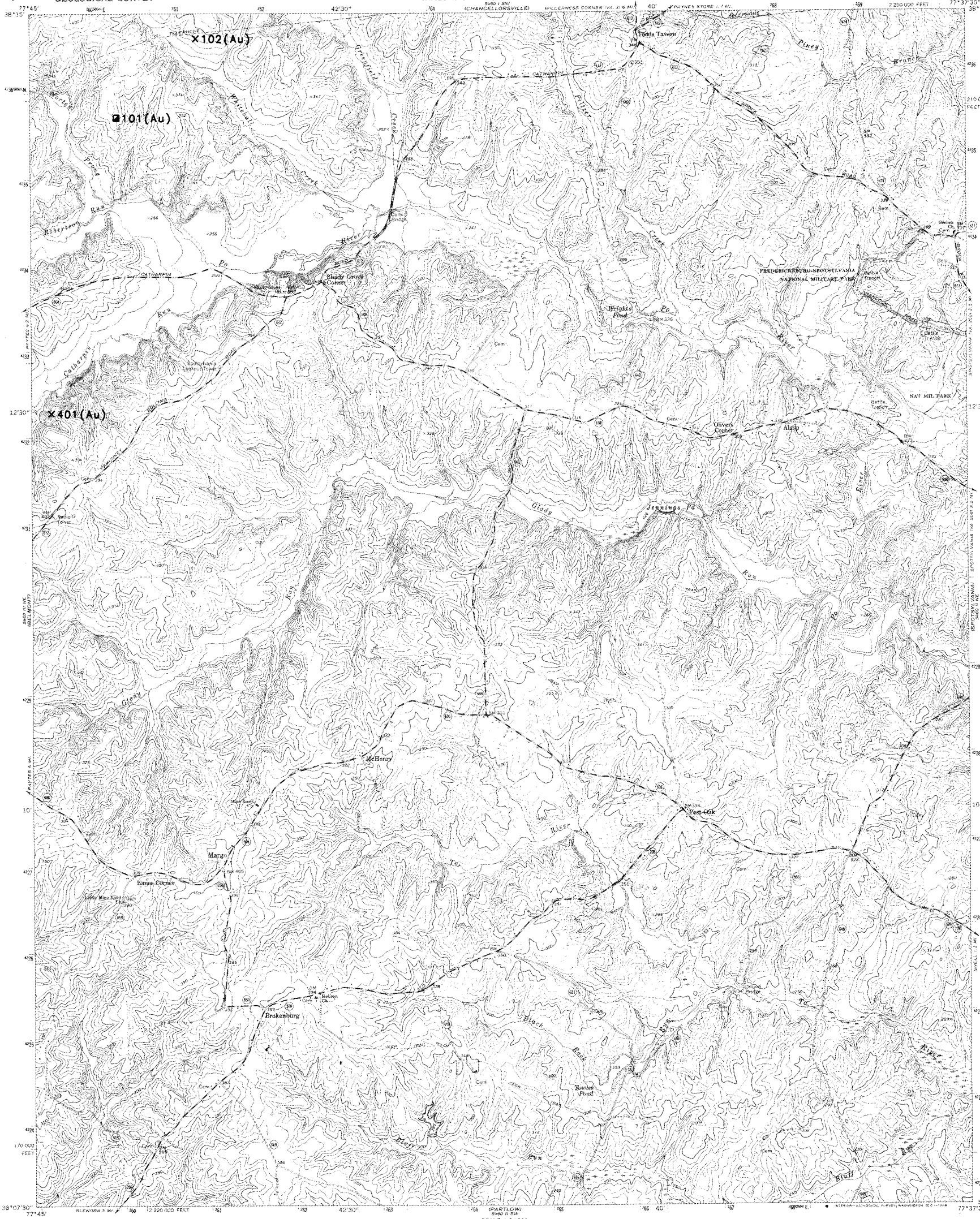
DIVISION OF MINERAL RESOURCES
JAMES L. CALVER, STATE GEOLOGIST

BROKENBURG QUADRANGLE
VIRGINIA—SPOTSYLVANIA CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)



Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1963. Field checked 1966

Supersedes Army Map Service map dated 1942

Polyconic projection. 1927 North American datum
10,000-foot grid based on Virginia coordinate system, north zone
1000-meter Universal Transverse Mercator grid ticks, zone 18, shown in blue

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked

UTM GRID AND 1966 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL

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AND VIRGINIA DIVISION OF MINERAL RESOURCES, CHARLOTTESVILLE, VIRGINIA 22903
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

ROAD CLASSIFICATION
Medium-duty — Light-duty
Unimproved dirt
State Route

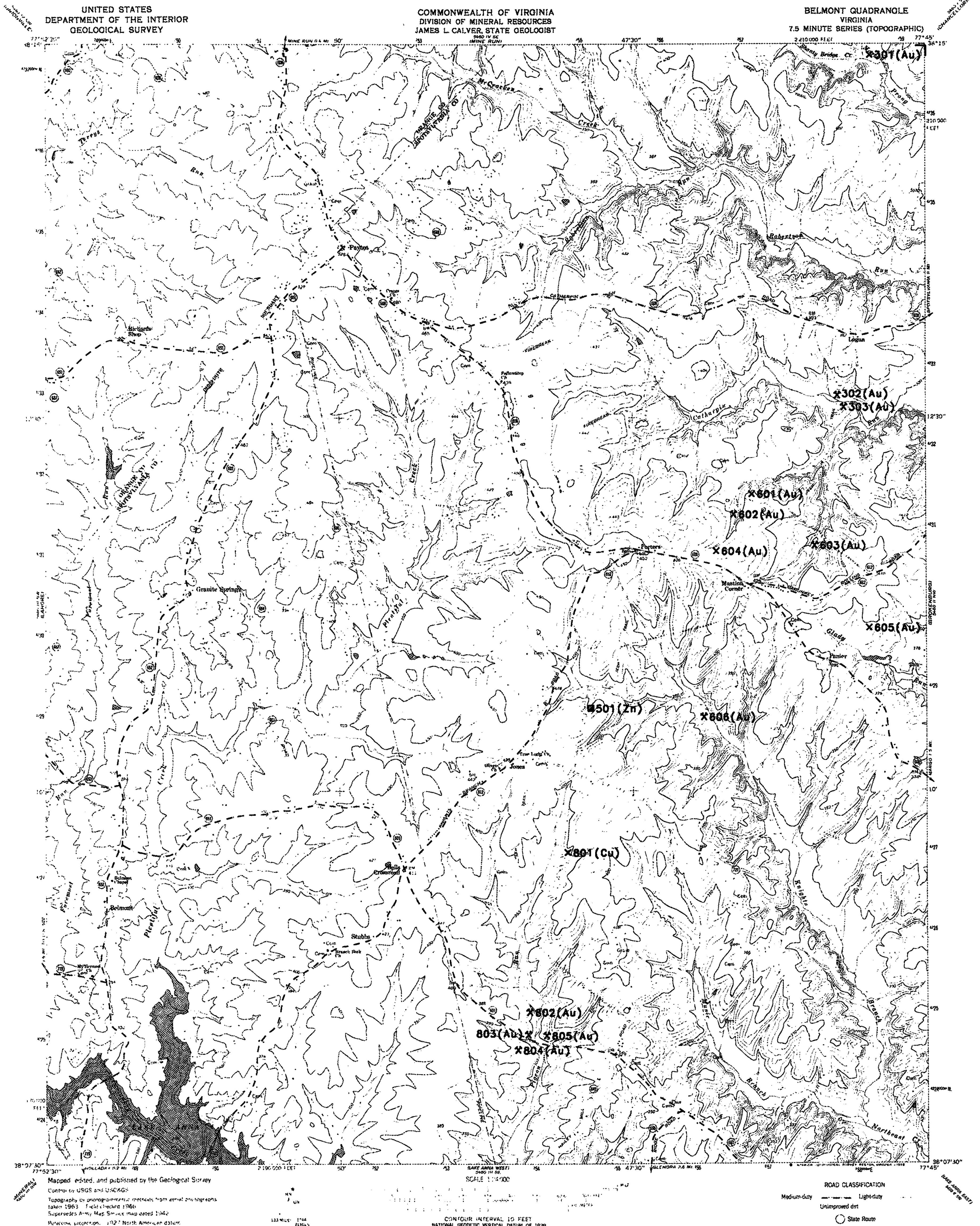
BROKENBURG, VA.
N3807.5—W7737.5/7.5
1966
AMS 5466 II NW—SERIES V834

SPECIAL PRINTING
Contours and woodland symbols omitted

PUBLICATION 147

Table 17. Metallic mines, prospects, and occurrences in Belmont 7.5-minute quadrangle.

LOCALITY	LATITUDE	LONGITUDE	COUNTY	QUADRANGLE	PRINCIPAL COMMODITY	TYPE OF OPENING	NAME	REFERENCES
171A-301	38.248966	-77.757957	Spotsylvania	Belmont	gold	prospect pit	Beazely	58, 5, 53, 28
171A-302	38.211006	-77.762650	Spotsylvania	Belmont	gold	open pit	Roney	56, 58, 56, 5, 53, 28
171A-303	38.209690	-77.761742	Spotsylvania	Belmont	gold	open pit	Roney	56, 58, 56, 5, 53, 28
171A-501	38.176067	-77.797653	Spotsylvania	Belmont	zinc	shaft	Valzinco	56, 44, 18, 47, 28
171A-601	38.199978	-77.774834	Spotsylvania	Belmont	gold	prospect pit	Rawlings	58, 5
171A-602	38.197704	-77.777435	Spotsylvania	Belmont	gold	open pit	New Grindstone	56, 53, 58, 5, 34, 35
171A-603	38.194214	-77.765892	Spotsylvania	Belmont	gold	open pit	Grindstone (Hill)	56, 58, 5, 28, 34, 35, 53
171A-604	38.193607	-77.779877	Spotsylvania	Belmont	gold	prospect pit	prospect pit B	58
171A-605	38.184986	-77.758171	Spotsylvania	Belmont	gold	prospect pit	Johnston's	58, 53
171A-606	38.175076	-77.781654	Spotsylvania	Belmont	gold	open pit	Mitchell	58, 5, 53, 41, 63
171A-801	38.159943	-77.800934	Spotsylvania	Belmont	copper	prospect pit	Marva	56, 5, 28
171A-802	38.142078	-77.806381	Spotsylvania	Belmont	gold	open pit	Stajar's (Starrs)	58, 39, 53
171A-803	38.139565	-77.806610	Spotsylvania	Belmont	gold	open pit	Goodwyn	58, 5, 53, 28, 63, 22
171A-804	38.137836	-77.808067	Spotsylvania	Belmont	gold	open pit	Goodwyn	58, 5, 53, 28, 63, 22
171A-805	38.139462	-77.803993	Spotsylvania	Belmont	gold	open pit	Knapp	58, 53, 23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DIVISION OF MINERAL RESOURCES
JAMES L. CALVER, STATE GEOLOGIST
BELMONT QUADRANGLE
VIRGINIA
7.5 MINUTE SERIES (TOPOGRAPHIC)
×301(Au)
×302(Au)
×303(Au)
×601(Au)
×602(Au)
×603(Au)
×604(Au)
×605(Au)
×606(Au)
■501(Zn)
×801(Cu)
×802(Au)
803(Au)×
×804(Au)
×805(Au)
McCracken
Creek
Robertson
Run
Catharpin
Terrys
Paytes
Richards Shop
Granite Springs
Plentiful
Porters
Mastins Corner
Logan
Glady
Panier
Jones
Bells Crossroad
Belmont
Stubbs
Knights
Branch
Northeast Cr.
Shanty Bridge Cr.
Prong
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Topography by photogrammetric methods from aerial photographs taken 1963. Field checked 1966
Supersedes Army Map Service map dated 1942
Polyconic projection. 1927 North American datum
10,000-foot grid based on Virginia coordinate system, north zone
1000-meter Universal Transverse Mercator grid ticks, zone 18, shown in blue
Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked
Revisions shown in purple compiled in cooperation with Commonwealth of Virginia agencies from aerial photographs taken 1977 and other source data. This information not field checked. Map edited 1978
SCALE 1:24000
CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929
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AND VIRGINIA DIVISION OF MINERAL RESOURCES, CHARLOTTESVILLE, VIRGINIA 22903
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST
ROAD CLASSIFICATION
Medium-duty
Light-duty
Unimproved dirt
State Route
BELMONT, VA.
N3807.5—W7745/7.5
1966
PHOTOREVISED 1978
AMS 5460 III NE-SERIES V834

Table 18. Metallic mines, prospects, and occurrences in Lahore 7.5-minute quadrangle.

LOCALITY	LATITUDE	LONGITUDE	COUNTY	QUADRANGLE	PRINCIPAL COMMODITY	TYPE OF OPENING	NAME	REFERENCES
171B-201	38.226875	-77.936775	Orange	Lahore	gold	prospect pit	Stuart	58, 5, 28, 53
171B-301	38.232605	-77.875961	Orange	Lahore	gold	prospect pit	Seldon	58, 5, 53, 41
171B-302	38.231323	-77.908043	Orange	Lahore	gold	prospect pit	Saunders	58, 5, 53, 41, 28
171B-303	38.228252	-77.910851	Orange	Lahore	gold	prospect pit	Saunders	58, 5, 53, 41, 28
171B-304	38.225670	-77.912872	Orange	Lahore	gold	prospect pit	Young	58, 5, 53, 28, 41

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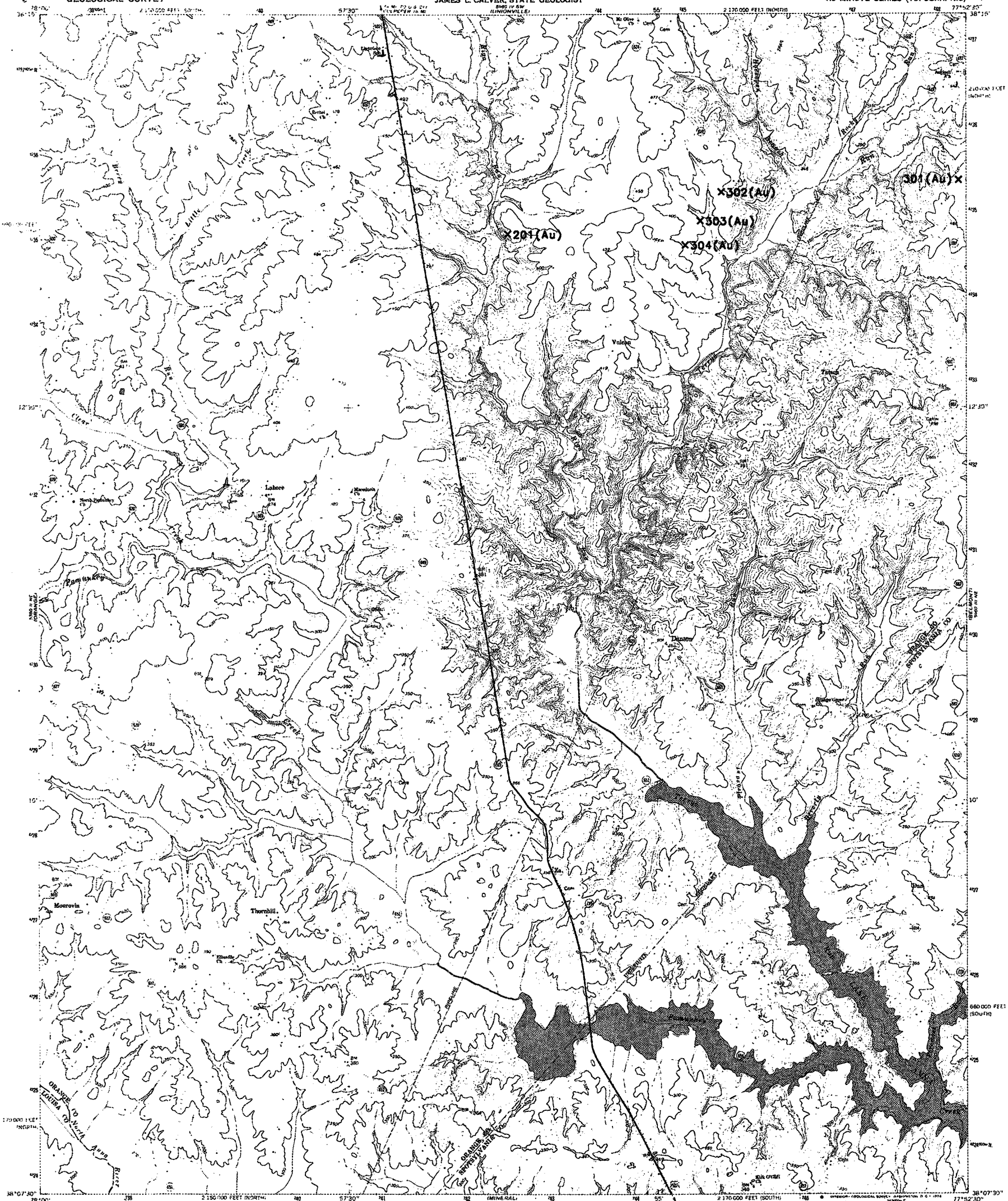
GEOLOGICAL SURVEY

COMMONWEALTH OF VIRGINIA
DIVISION OF MINERAL RESOURCES
JAMES L. CALVER, STATE GEOLOGIST

LAHORE QUADRANGLE
VIRGINIA
7.5 MINUTE SERIES (TOPOGRAPHIC)



Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1966. Field checked 1968

Supersedes Army Map Service map dated 1942

Polyconic projection. 1927 North American datum

10,000-foot grids based on Virginia coordinate system, north and south zones

1000 meter Universal Transverse Mercator grid ticks, zone 18, shown in blue

Fine red dashed lines indicate selected fence and field lines where determinable on aerial photographs. This information is unchecked

Revisions shown in purple compiled in cooperation with Commonwealth of Virginia agencies from aerial photographs taken 1973. This information not field checked

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL

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AND VIRGINIA DIVISION OF MINERAL RESOURCES, CHARLOTTESVILLE, VIRGINIA 22903
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

ROAD CLASSIFICATION

Primary highway, all weather, hard surface — Light-duty road, all weather, improved surface

Unimproved road, fair or dry weather

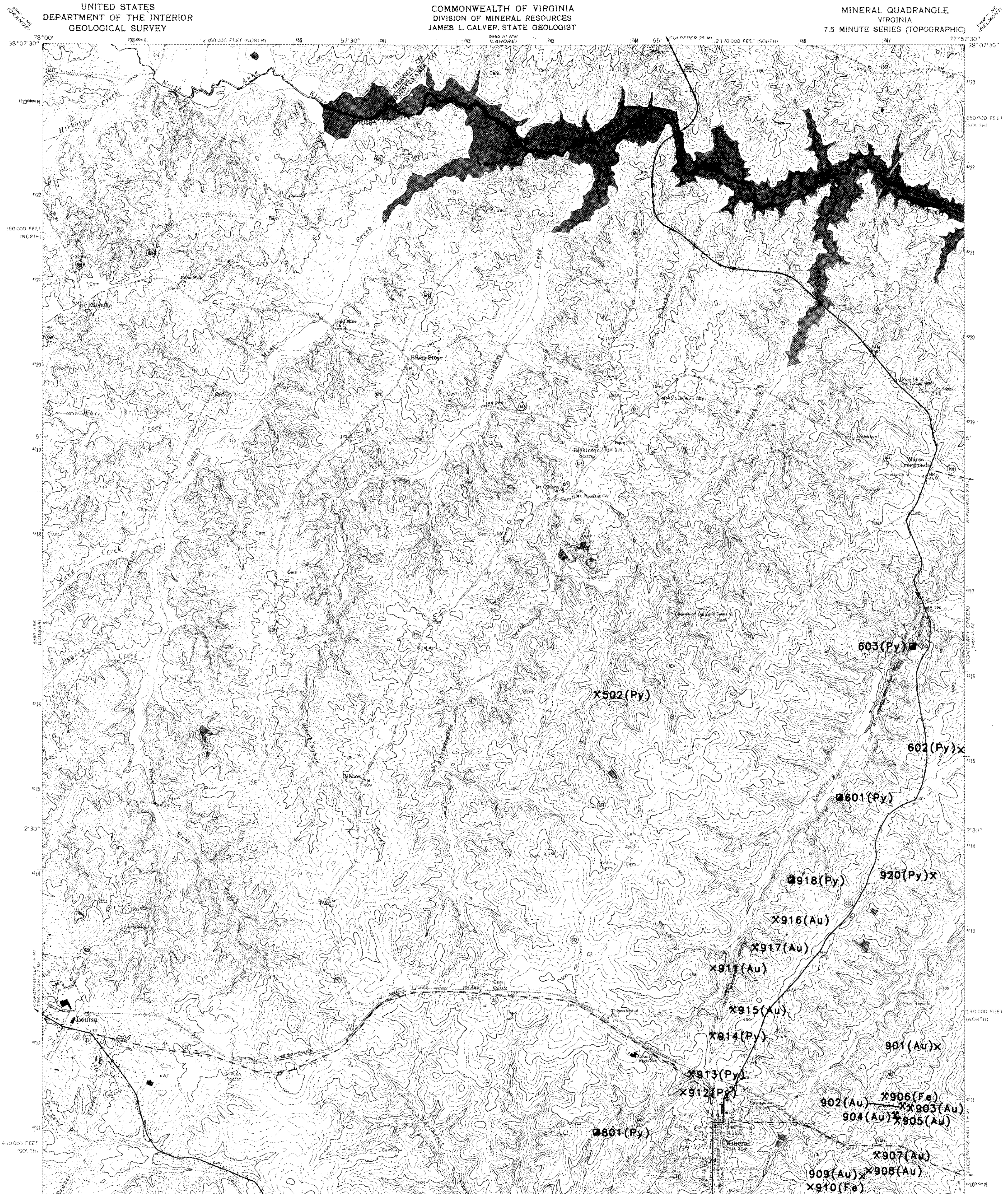
U.S. Route — State Route

LAHORE, VA.
N3807.5—W7752.5/7.5

1968
PHOTOREVISED 1973
**** 5466 III NW -SERIES V834

Table 19. Metallic mines, prospects, and occurrences in Mineral 7.5-minute quadrangle.

LOCALITY	LATITUDE	LONGITUDE	COUNTY	QUADRANGLE	PRINCIPAL COMMODITY	TYPE OF OPENING	NAME	REFERENCES
171C-502	38.055996	-77.924728	Louisa	Mineral	pyrite	open pit	Gunter	28, 5
171C-601	38.045017	-77.891861	Louisa	Mineral	pyrite	shaft	Boyd-Smith	56, 44, 5, 15, 20, 28, 46
171C-602	38.050026	-77.875366	Louisa	Mineral	pyrite	prospect pit	Cofer	56, 44, 36, 15, 21, 37, 38
171C-603	38.061077	-77.881950	Louisa	Mineral	pyrite	shaft	Sulphur	56, 44, 5, 28, 63, 25, 26, 46
171C-701	38.001312	-77.984192	Louisa	Mineral	gold	prospect pit	unknown	63
171C-801	38.009388	-77.924812	Louisa	Mineral	pyrite	shaft	Julia	56, 44, 5, 15, 43, 45, 64
171C-901	38.018433	-77.878540	Louisa	Mineral	gold	prospect pit	Belden	58, 5, 53, 28
171C-902	38.012146	-77.883308	Louisa	Mineral	gold	open pit	Chick	58, 5, 28, 63, 53
171C-903	38.011929	-77.882217	Louisa	Mineral	gold	open pit	Chick	58, 5, 28, 63, 53
171C-904	38.011173	-77.884247	Louisa	Mineral	gold	open pit	Stockton	56, 58, 5, 53, 28, 41
171C-905	38.010605	-77.883995	Louisa	Mineral	gold	open pit	Morriston	58, 28, 53, 8
171C-906	38.013180	-77.885704	Louisa	Mineral	iron	open pit	Childs	unpublished MRV base map
171C-907	38.006882	-77.886765	Louisa	Mineral	gold	open pit	Harris	58, 5, 53, 63
171C-908	38.005230	-77.887856	Louisa	Mineral	gold	prospect pit	Bibb	58, 5, 41, 53, 28
171C-909	38.004608	-77.888756	Louisa	Mineral	gold	prospect pit	Bibb	58, 5, 41, 53, 28
171C-910	38.003448	-77.895760	Louisa	Mineral	iron	prospect pit	Jones	unpublished MRV base map
171C-911	38.026863	-77.908981	Louisa	Mineral	gold	prospect pit	Triple Fork	58, 53
171C-912	38.013641	-77.913048	Louisa	Mineral	pyrite	prospect pit	Hunter	56, 28
171C-913	38.015594	-77.911926	Louisa	Mineral	pyrite	open pit	Kent	28, 5
171C-914	38.019638	-77.909058	Louisa	Mineral	pyrite	open pit	Hemmer	56, 5, 14, 28
171C-915	38.022404	-77.906311	Louisa	Mineral	gold	open pit	Lett	58, 5, 53, 28
171C-916	38.031986	-77.900482	Louisa	Mineral	gold	open pit	Cooper	56, 58, 5, 63, 28, 53
171C-917	38.029049	-77.903305	Louisa	Mineral	gold	open pit	Walton	56, 58, 28, 63, 8, 53
171C-918	38.036198	-77.898376	Louisa	Mineral	pyrite	shaft	Arminius	56, 44, 5, 6, 15, 46
171C-920	38.036659	-77.879120	Louisa	Mineral	pyrite	open pit	Old Dominion	28, 44



PUBLICATION 147

Table 20. Metallic mines, prospects, and occurrences in Lake Anna West 7.5-minute quadrangle.

LOCALITY	LATITUDE	LONGITUDE	COUNTY	QUADRANGLE	PRINCIPAL COMMODITY	TYPE OF OPENING	NAME	REFERENCES
171D-401	38.073906	-77.859291	Louisa	Lake Anna West	gold	shaft	Allah Cooper	56, 44, 63, 18, 47, 53, 28
171D-402	38.064671	-77.872047	Louisa	Lake Anna West	gold	shaft	Tinder	56, 58, 56, 63, 53, 8, 28, 49
171D-403	38.063957	-77.861549	Louisa	Lake Anna West	gold	open pit	Jenkins	58
171D-404	38.062893	-77.835014	Louisa	Lake Anna West	gold	open pit	Boxley's	58, 53, 49
171D-701	38.030807	-77.874100	Louisa	Lake Anna West	pyrite	open pit	Simms	28, 5

UNITED STATES
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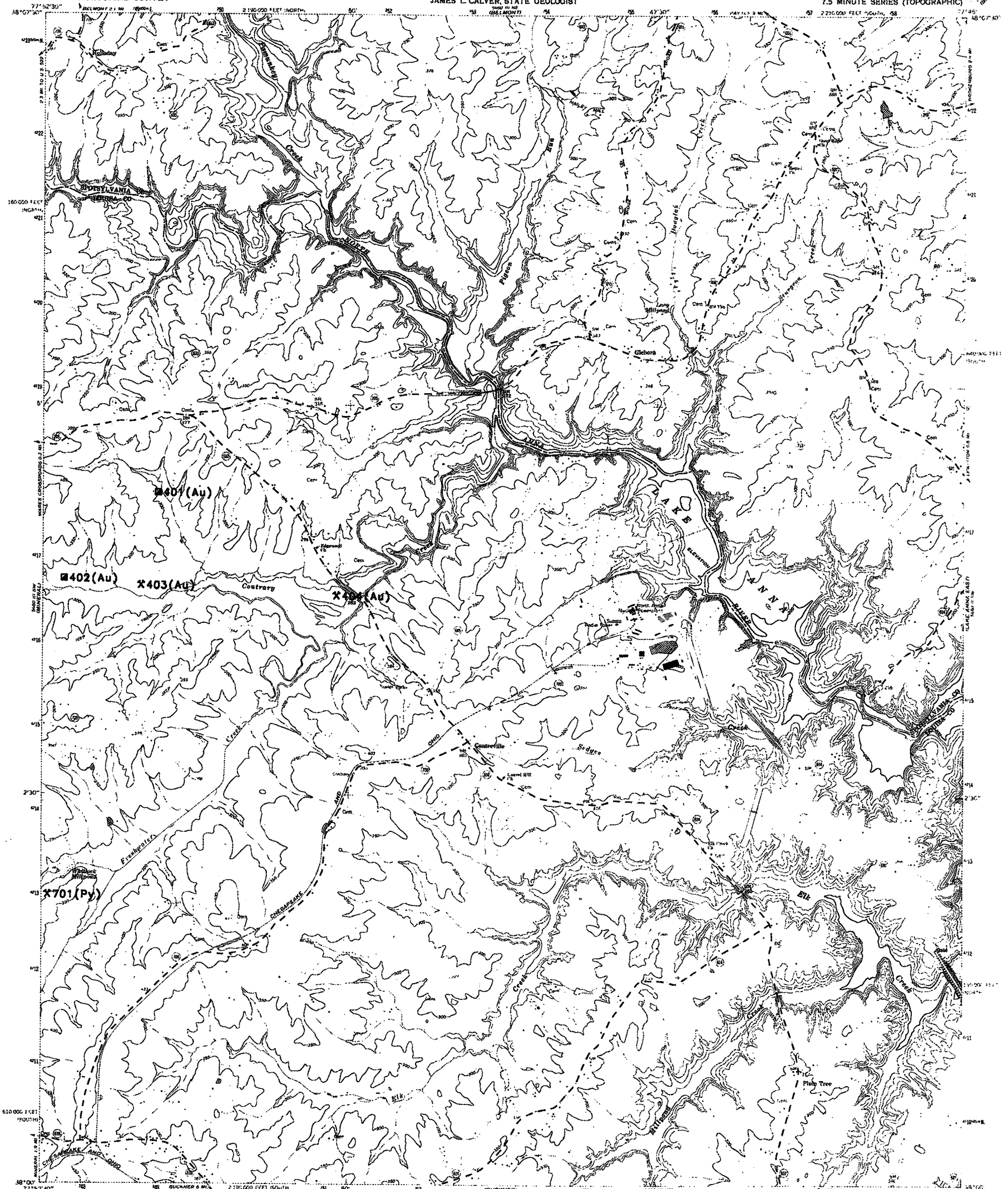
DIVISION OF MINERAL RESOURCES
JAMES L. CALVER, STATE GEOLOGIST

LAKE ANNA WEST QUADRANGLE
VIRGINIA
7.5 MINUTE SERIES (TOPOGRAPHIC)



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Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1966. Field checked 1968
Revised from aerial photographs taken 1972 and 1973
Field checked 1973

Polyconic projection. 1927 North American datum.
10,000-foot grids based on Virginia coordinate system, south and north zones
1000-meter Universal Transverse Mercator grid ticks, zone 18, shown in blue

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked

Revisions shown in purple compiled in cooperation with Commonwealth of Virginia agencies from aerial photographs taken 1977 and other source data. This information not field checked. Map edited 1978

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, RESTON, VIRGINIA 22092
AND VIRGINIA DIVISION OF MINERAL RESOURCES, CHARLOTTESVILLE, VIRGINIA 22903
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

ROAD CLASSIFICATION

Primary highway, hard surface — Light-duty road, hard or improved surface
Secondary highway, hard surface — Unimproved road
Interstate Route — U. S. Route — State Route

LAKE ANNA WEST, VA
FORMERLY CONTRAH CREEK
N3800—W7745/7.5

1973
PHOTOREVISED 1978
AMS 5469 III SE—SERIES V834

Table 21. Metallic mines, prospects, and occurrences in Stafford 7.5-minute quadrangle.

LOCALITY	LATITUDE	LONGITUDE	COUNTY	QUADRANGLE	PRINCIPAL COMMODITY	TYPE OF OPENING	NAME	REFERENCES
182B-201	38.462521	-77.422928	Stafford	Stafford	pyrite	shaft	Austin Run	56, 44, 27, 26, 63, 46, 64
182B-502	38.434105	-77.456482	Stafford	Stafford	iron	open pit	Washington	unpublished MRV base map

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DIVISION OF MINERAL RESOURCES
JAMES L. CALVER, STATE GEOLOGIST

STAFFORD QUADRANGLE
VIRGINIA–STAFFORD CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

Mapped, edited, and published by the Geological Survey

Control by USGS, USC&GS, and USCE

Topography by photogrammetric methods from aerial photographs taken 1963. Field checked 1966
Supersedes Army Map Service map dated 1943

Polyconic projection. 1927 North American datum
10,000-foot grid based on Virginia coordinate system, north zone
1000-meter Universal Transverse Mercator grid ticks, zone 18, shown in blue

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked

Revisions shown in purple compiled in cooperation with Commonwealth of Virginia agencies from aerial photographs taken 1977 and other source data. This information not field checked. Map edited 1978

UTM GRID AND 1978 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, RESTON, VIRGINIA 22092
AND VIRGINIA DIVISION OF MINERAL RESOURCES, CHARLOTTESVILLE, VIRGINIA 22903
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

ROAD CLASSIFICATION
Heavy-duty — Light-duty
Medium-duty — Unimproved dirt
Interstate Route — U.S. Route — State Route

STAFFORD, VA.
N3822.5—W7722.5/7.5

1966
PHOTOREVISED 1978
AMS 5560 IV NW—SERIES V834

PUBLICATION 147

Table 22. Metallic mines, prospects, and occurrences in Storck 7.5-minute quadrangle.

LOCALITY	LATITUDE	LONGITUDE	COUNTY	QUADRANGLE	PRINCIPAL COMMODITY	TYPE OF OPENING	NAME	REFERENCES
183A-801	38.392326	-77.564079	Stafford	Storck	gold	open pit	New Hope	53, 58, 7, 28

UNITED STATES
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COMMONWEALTH OF VIRGINIA
DIVISION OF MINERAL RESOURCES

STORCK QUADRANGLE
VIRGINIA
7.5 MINUTE SERIES (TOPOGRAPHIC)

(CHANCELLORSVILLE) 5460 I SW

(FREDERICKSBURG) 5560 IV SW

Mapped, edited, and published by the Geological Survey

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Topography by photogrammetric methods from aerial photographs taken 1963. Field checked 1966

Polyconic projection. 10,000-foot grid ticks based on Virginia coordinate system, north zone
1000-meter Universal Transverse Mercator grid ticks, zone 18, shown in blue
1927 North American Datum
To place on the predicted North American Datum 1983 move the projection lines 9 meters south and 25 meters west as shown by dashed corner ticks

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked

There may be private inholdings within the boundaries of the National or State reservations shown on this map

UTM GRID AND 1984 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, RESTON, VIRGINIA 22092
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A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

Revisions shown in purple and woodland compiled in cooperation with Commonwealth of Virginia agencies from aerial photographs taken 1981 and other sources. This information not field checked
Map edited 1984

ROAD CLASSIFICATION

Heavy-duty — Light-duty
Medium-duty — Unimproved dirt
U. S. Route — State Route

STORCK, VA.
38077-D5-TF-024

1966
PHOTOREVISED 1984
DMA 5460 I NE—SERIES V834

Table 23. Metallic mines, prospects, and occurrences in Richardsville 7.5-minute quadrangle.

LOCALITY	LATITUDE	LONGITUDE	COUNTY	QUADRANGLE	PRINCIPAL COMMODITY	TYPE OF OPENING	NAME	REFERENCES
183B-101	38.474991	-77.747673	Fauquier	Richardsville	gold	prospect pit	Gamewood	53, 58, 27
183B-102	38.471867	-77.735733	Fauquier	Richardsville	gold	prospect pit	Pollard	53, 58, 27
183B-103	38.460850	-77.749359	Fauquier	Richardsville	gold	shaft	Kelly	53, 58, 27, 63, 28
183B-104	38.472092	-77.713501	Fauquier	Richardsville	gold	shaft	Bancroft	53, 58, 27, 40, 28
183B-105	38.479763	-77.720695	Fauquier	Richardsville	gold	shaft	Bancroft	53, 58, 27, 40, 28
183B-201	38.494366	-77.706268	Fauquier	Richardsville	gold	shaft	Liepold	53, 58, 27, 63, 33
183B-202	38.461262	-77.671295	Fauquier	Richardsville	gold	prospect pit	Cool Spring	53, 58, 27, 10
183B-203	38.463615	-77.671288	Fauquier	Richardsville	gold	shaft	Little Elliot	53, 58, 27, 52
183B-205	38.468590	-77.676949	Fauquier	Richardsville	gold	shaft	Randolph	53, 58, 27, 52
183B-206	38.486877	-77.675484	Fauquier	Richardsville	gold	shaft	Wycoff	53, 58, 27, 7, 63
183B-301	38.496616	-77.663918	Fauquier	Richardsville	gold	shaft	Kirk	53, 52, 63
183B-401	38.441261	-77.740112	Fauquier	Richardsville	gold	shaft	Kidwell	53, 58, 27, 40, 28
183B-501	38.456062	-77.688858	Fauquier	Richardsville	gold	prospect pit	Pine View	53, 58, 27, 39
183B-502	38.453327	-77.677048	Fauquier	Richardsville	gold	shaft	Liberty	53, 58, 52, 27, 7, 28, 41
183B-503	38.454868	-77.676109	Fauquier	Richardsville	gold	shaft	Liberty	53, 58, 52, 27, 7, 28, 41
183B-504	38.456123	-77.675423	Fauquier	Richardsville	gold	shaft	Liberty	53, 58, 52, 27, 7, 28, 41
183B-505	38.457180	-77.674782	Fauquier	Richardsville	gold	shaft	Liberty	53, 58, 52, 27, 7, 28, 41
183B-506	38.441662	-77.684090	Fauquier	Richardsville	gold	shaft	Union	53, 58, 27, 49, 7
183B-507	38.418972	-77.676765	Culpeper	Richardsville	gold	open pit	Morganna	53, 58, 27, 28, 39
183B-508	38.417465	-77.698708	Culpeper	Richardsville	gold	prospect pit	Childsburg	53, 58, 27, 48
183B-601	38.431175	-77.656067	Fauquier	Richardsville	gold	prospect pit	Johnston	53, 58, 27, 39
183B-701	38.398720	-77.728821	Culpeper	Richardsville	gold	open pit	Richardsville	53, 58, 63, 28
183B-702	38.389000	-77.718033	Culpeper	Richardsville	gold	open pit	Rossin's	53, 58, 27, 9
183B-703	38.382660	-77.712677	Culpeper	Richardsville	gold	shaft	Love	53, 58, 27, 28
183B-801	38.416199	-77.704414	Culpeper	Richardsville	gold	prospect pit	Childsburg	53, 58, 27, 48
183B-802	38.412552	-77.694542	Culpeper	Richardsville	gold	shaft	Ellis	56, 53, 58, 27, 28
183B-803	38.413403	-77.694122	Culpeper	Richardsville	gold	shaft	Ellis	56, 53, 58, 27, 28
183B-804	38.414955	-77.693298	Culpeper	Richardsville	gold	shaft	Ellis	56, 53, 58, 27, 28
183B-805	38.407532	-77.695816	Culpeper	Richardsville	gold	shaft	Ellis	56, 53, 58, 27, 28
183B-806	38.411030	-77.686806	Culpeper	Richardsville	gold	shaft	Ellis	56, 53, 58, 27, 28
183B-807	38.409626	-77.697685	Culpeper	Richardsville	gold	prospect pit	Urquhart	53, 58, 27
183B-808	38.400520	-77.693336	Culpeper	Richardsville	gold	shaft	Cromarty	53, 58, 27, 49, 16, 41, 63
183B-809	38.386654	-77.690163	Culpeper	Richardsville	gold	prospect pit	Dry Bottom	53, 58, 27
183B-810	38.382607	-77.704819	Culpeper	Richardsville	gold	prospect pit	Eagle	53, 58, 27, 48
183B-811	38.380833	-77.707169	Culpeper	Richardsville	gold	open pit	Horace Greeley	53, 58, 27

Piece of crushing machinery at the plant site of the Randolph mine, Fauquier County (photograph by P. C. Sweet, 1974).

Table 23. Metallic mines, prospects, and occurrences in Richardsville 7.5-minute quadrangle.

LOCALITY	LATITUDE	LONGITUDE	COUNTY	QUADRANGLE	PRINCIPAL COMMODITY	TYPE OF OPENING	NAME	REFERENCES
183B-101	38.474991	-77.747673	Fauquier	Richardsville	gold	prospect pit	Gamewood	53, 58, 27
183B-102	38.471867	-77.735733	Fauquier	Richardsville	gold	prospect pit	Pollard	53, 58, 27
183B-103	38.460850	-77.749359	Fauquier	Richardsville	gold	shaft	Kelly	53, 58, 27, 63, 28
183B-104	38.472092	-77.713501	Fauquier	Richardsville	gold	shaft	Bancroft	53, 58, 27, 40, 28
183B-105	38.479763	-77.720695	Fauquier	Richardsville	gold	shaft	Bancroft	53, 58, 27, 40, 28
183B-201	38.494366	-77.706268	Fauquier	Richardsville	gold	shaft	Liepold	53, 58, 27, 63, 33
183B-202	38.461262	-77.671295	Fauquier	Richardsville	gold	prospect pit	Cool Spring	53, 58, 27, 10
183B-203	38.463615	-77.671288	Fauquier	Richardsville	gold	shaft	Little Elliot	53, 58, 27, 52
183B-205	38.468590	-77.676949	Fauquier	Richardsville	gold	shaft	Randolph	53, 58, 27, 52
183B-206	38.486877	-77.675484	Fauquier	Richardsville	gold	shaft	Wycoff	53, 58, 27, 7, 63
183B-301	38.496616	-77.663918	Fauquier	Richardsville	gold	shaft	Kirk	53, 52, 63
183B-401	38.441261	-77.740112	Fauquier	Richardsville	gold	shaft	Kidwell	53, 58, 27, 40, 28
183B-501	38.456062	-77.688858	Fauquier	Richardsville	gold	prospect pit	Pine View	53, 58, 27, 39
183B-502	38.453327	-77.677048	Fauquier	Richardsville	gold	shaft	Liberty	53, 58, 52, 27, 7, 28, 41
183B-503	38.454868	-77.676109	Fauquier	Richardsville	gold	shaft	Liberty	53, 58, 52, 27, 7, 28, 41
183B-504	38.456123	-77.675423	Fauquier	Richardsville	gold	shaft	Liberty	53, 58, 52, 27, 7, 28, 41
183B-505	38.457180	-77.674782	Fauquier	Richardsville	gold	shaft	Liberty	53, 58, 52, 27, 7, 28, 41
183B-506	38.441662	-77.684090	Fauquier	Richardsville	gold	shaft	Union	53, 58, 27, 49, 7
183B-507	38.418972	-77.676765	Culpeper	Richardsville	gold	open pit	Morganna	53, 58, 27, 28, 39
183B-508	38.417465	-77.698708	Culpeper	Richardsville	gold	prospect pit	Childsburg	53, 58, 27, 48
183B-601	38.431175	-77.656067	Fauquier	Richardsville	gold	prospect pit	Johnston	53, 58, 27, 39
183B-701	38.398720	-77.728821	Culpeper	Richardsville	gold	open pit	Richardsville	53, 58, 63, 28
183B-702	38.389000	-77.718033	Culpeper	Richardsville	gold	open pit	Rossin's	53, 58, 27, 9
183B-703	38.382660	-77.712677	Culpeper	Richardsville	gold	shaft	Love	53, 58, 27, 28
183B-801	38.416199	-77.704414	Culpeper	Richardsville	gold	prospect pit	Childsburg	53, 58, 27, 48
183B-802	38.412552	-77.694542	Culpeper	Richardsville	gold	shaft	Ellis	56, 53, 58, 27, 28
183B-803	38.413403	-77.694122	Culpeper	Richardsville	gold	shaft	Ellis	56, 53, 58, 27, 28
183B-804	38.414955	-77.693298	Culpeper	Richardsville	gold	shaft	Ellis	56, 53, 58, 27, 28
183B-805	38.407532	-77.695816	Culpeper	Richardsville	gold	shaft	Ellis	56, 53, 58, 27, 28
183B-806	38.411030	-77.686806	Culpeper	Richardsville	gold	shaft	Ellis	56, 53, 58, 27, 28
183B-807	38.409626	-77.697685	Culpeper	Richardsville	gold	prospect pit	Urquhart	53, 58, 27
183B-808	38.400520	-77.693336	Culpeper	Richardsville	gold	shaft	Cromarty	53, 58, 27, 49, 16, 41, 63
183B-809	38.386654	-77.690163	Culpeper	Richardsville	gold	prospect pit	Dry Bottom	53, 58, 27
183B-810	38.382607	-77.704819	Culpeper	Richardsville	gold	prospect pit	Eagle	53, 58, 27, 48
183B-811	38.380833	-77.707169	Culpeper	Richardsville	gold	open pit	Horace Greeley	53, 58, 27

Piece of crushing machinery at the plant site of the Randolph mine, Fauquier County (photograph by P. C. Sweet, 1974).

UNITED STATES
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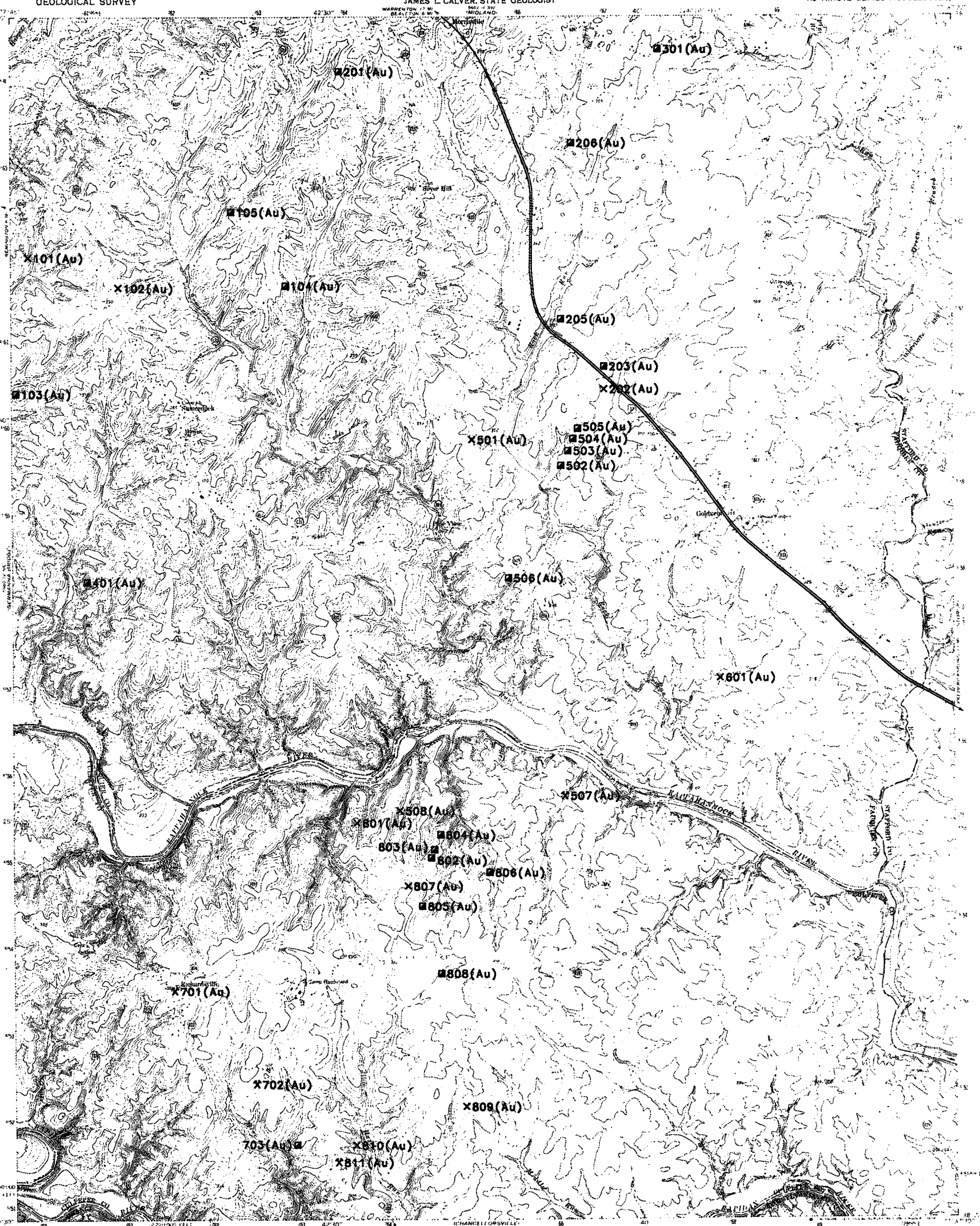
GEOLOGICAL SURVEY

COMMONWEALTH OF VIRGINIA
DIVISION OF MINERAL RESOURCES
JAMES L. CALVER, STATE GEOLOGIST

RICHARDSVILLE QUADRANGLE
VIRGINIA
7.5 MINUTE SERIES (TOPOGRAPHIC)



Mapped, edited, and published by the Geological Survey

Control by USGS and NOS/NOAA

Topography by photogrammetric methods from aerial photographs taken 1966. Field checked 1968

Superseded Army Map Service map dated 1943

Polyconic projection. 1927 North American datum
10,000 foot grid based on Virginia coordinate system, north zone
1000 meter Universal Transverse Mercator grid ticks
zone 18, shown in blue

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked.

Revisions shown in purple compiled in cooperation with Commonwealth of Virginia agencies from aerial photographs taken 1977 and other source data. This information not field checked. Map edited 1978

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, RESTON, VIRGINIA 22092
AND VIRGINIA DIVISION OF MINERAL RESOURCES, CHARLOTTESVILLE, VIRGINIA 22903
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

ROAD CLASSIFICATION

Primary highway, hard surface — All weather
Light duty road, hard surface — All weather
Unimproved road — Fair or dry weather

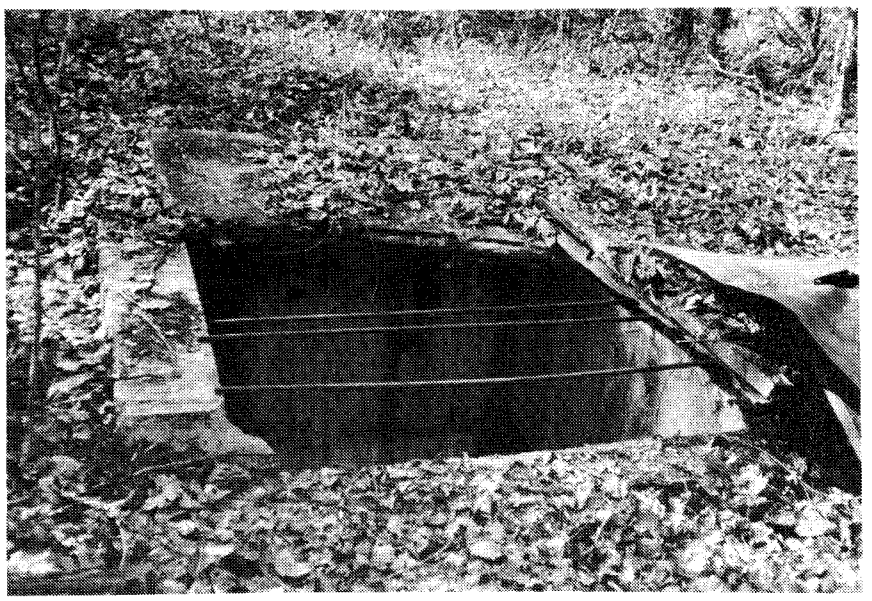
U. S. Route — State Route

RICHARDSVILLE, VA.

1968
PHOTOREVISED 1978
AMS 5460 I NW—SERIES V834

Table 24. Metallic mines, prospects, and occurrences in Chancellorsville 7.5-minute quadrangle.

LOCALITY	LATITUDE	LONGITUDE	COUNTY	QUADRANGLE	PRINCIPAL COMMODITY	TYPE OF OPENING	NAME	REFERENCES
183C-101	38.353817	-77.728661	Orange	Chancellorsville	gold	shaft	Vaucluse	56, 53, 58, 51, 2, 42, 41, 27, 7, 63
183C-102	38.360741	-77.723938	Orange	Chancellorsville	gold	shaft	Melville	56, 53, 58, 42, 41, 27, 51, 7, 52
183C-103	38.352253	-77.730064	Orange	Chancellorsville	gold	shaft	Vaucluse	56, 53, 58, 51, 2, 42, 41, 27, 7, 63
183C-104	38.351246	-77.730476	Orange	Chancellorsville	gold	shaft	Vaucluse	56, 53, 58, 51, 2, 42, 41, 27, 7, 63
183C-105	38.374889	-77.715317	Culpeper	Chancellorsville	gold	shaft	Culpeper	53, 58, 27, 28, 16, 41, 63
183C-106	38.370811	-77.711212	Culpeper	Chancellorsville	gold	shaft	Embrey	53, 58, 27, 28
183C-107	38.333412	-77.734406	Orange	Chancellorsville	gold	shaft	Woodville	53, 58, 60
183C-108	38.343040	-77.723877	Orange	Chancellorsville	gold	open pit	Greenwood (Laird)	56, 53, 58, 41, 28
183C-109	38.357250	-77.748215	Orange	Chancellorsville	gold	shaft	Partridge	53, 52, 27, 11
183C-113	38.335976	-77.731659	Orange	Chancellorsville	gold	shaft	Wilderness	53, 58, 51, 52, 27
183C-201	38.370651	-77.674583	Orange	Chancellorsville	gold	open pit	Smith Tract	53, 58, 27, 39
183C-301	38.339634	-77.656807	Spotsylvania	Chancellorsville	gold	prospect pit	Hunting Run	53, 58, 27
183C-302	38.355598	-77.632820	Spotsylvania	Chancellorsville	gold	prospect pit	Brinton	53, 58, 27, 41
183C-401	38.330490	-77.738297	Orange	Chancellorsville	gold	shaft	Woodville	53, 58, 60
183C-402	38.321121	-77.740768	Orange	Chancellorsville	gold	prospect pit	prospect pit A	53, 58, 52
183C-403	38.318443	-77.743477	Orange	Chancellorsville	gold	shaft	Ambler	53, 58, 7, 28
183C-404	38.328091	-77.734489	Orange	Chancellorsville	gold	prospect pit	Somerville	53, 58
183C-501	38.309776	-77.667122	Spotsylvania	Chancellorsville	gold	prospect pit	prospect pit A	53, 58
183C-601	38.312908	-77.627335	Spotsylvania	Chancellorsville	iron	open pit	unknown	unpublished MRV base map
183C-602	38.315342	-77.630020	Spotsylvania	Chancellorsville	iron	open pit	unknown	unpublished MRV base map
183C-701	38.279915	-77.719139	Spotsylvania	Chancellorsville	gold	prospect pit	Marsden	53, 58, 5, 28
183C-801	38.266659	-77.681213	Spotsylvania	Chancellorsville	gold	prospect pit	Quaker	53, 58, 41, 5, 28
183C-901	38.288692	-77.653107	Spotsylvania	Chancellorsville	gold	prospect pit	Furnace	53, 58

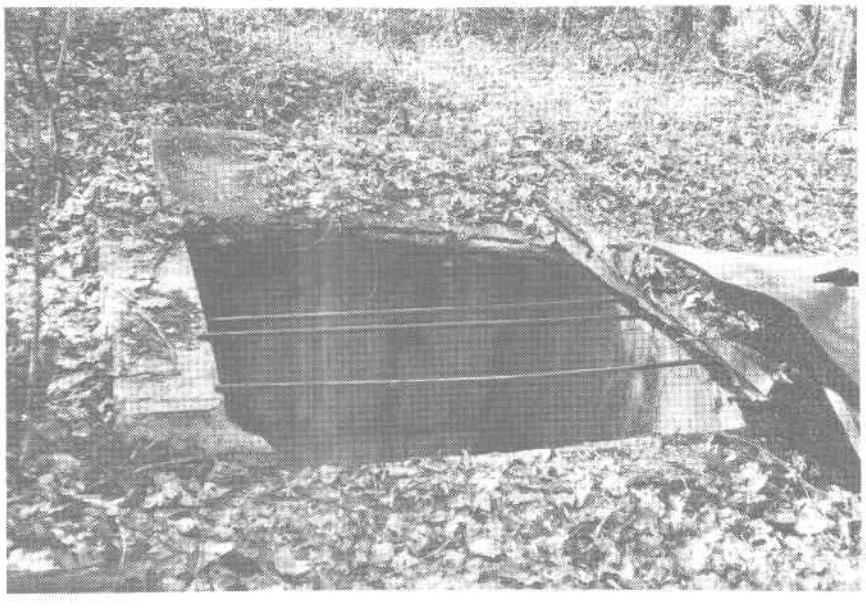


Water-filled, open shaft at the old Wilderness mine, Orange County (from Sweet, 1980).

Small block house and conerte foundations at the plant site of the Wilderness gold mine, Orange County (photograph by P. C. Sweet, 1969).

Table 24. Metallic mines, prospects, and occurrences in Chancellorsville 7.5-minute quadrangle.

LOCALITY	LATITUDE	LONGITUDE	COUNTY	QUADRANGLE	PRINCIPAL COMMODITY	TYPE OF OPENING	NAME	REFERENCES
183C-101	38.353817	-77.728661	Orange	Chancellorsville	gold	shaft	Vaucluse	56, 53, 58, 51, 2, 42, 41, 27, 7, 63
183C-102	38.360741	-77.723938	Orange	Chancellorsville	gold	shaft	Melville	56, 53, 58, 42, 41, 27, 51, 7, 52
183C-103	38.352253	-77.730064	Orange	Chancellorsville	gold	shaft	Vaucluse	56, 53, 58, 51, 2, 42, 41, 27, 7, 63
183C-104	38.351246	-77.730476	Orange	Chancellorsville	gold	shaft	Vaucluse	56, 53, 58, 51, 2, 42, 41, 27, 7, 63
183C-105	38.374889	-77.715317	Culpeper	Chancellorsville	gold	shaft	Culpeper	53, 58, 27, 28, 16, 41, 63
183C-106	38.370811	-77.711212	Culpeper	Chancellorsville	gold	shaft	Embrey	53, 58, 27, 28
183C-107	38.333412	-77.734406	Orange	Chancellorsville	gold	shaft	Woodville	53, 58, 60
183C-108	38.343040	-77.723877	Orange	Chancellorsville	gold	open pit	Greenwood (Laird)	56, 53, 58, 41, 28
183C-109	38.357250	-77.748215	Orange	Chancellorsville	gold	shaft	Partridge	53, 52, 27, 11
183C-113	38.335976	-77.731659	Orange	Chancellorsville	gold	shaft	Wilderness	53, 58, 51, 52, 27
183C-201	38.370651	-77.674583	Orange	Chancellorsville	gold	open pit	Smith Tract	53, 58, 27, 39
183C-301	38.339634	-77.656807	Spotsylvania	Chancellorsville	gold	prospect pit	Hunting Run	53, 58, 27
183C-302	38.355598	-77.632820	Spotsylvania	Chancellorsville	gold	prospect pit	Brinton	53, 58, 27, 41
183C-401	38.330490	-77.738297	Orange	Chancellorsville	gold	shaft	Woodville	53, 58, 60
183C-402	38.321121	-77.740768	Orange	Chancellorsville	gold	prospect pit	prospect pit A	53, 58, 52
183C-403	38.318443	-77.743477	Orange	Chancellorsville	gold	shaft	Ambler	53, 58, 7, 28
183C-404	38.328091	-77.734489	Orange	Chancellorsville	gold	prospect pit	Somerville	53, 58
183C-501	38.309776	-77.667122	Spotsylvania	Chancellorsville	gold	prospect pit	prospect pit A	53, 58
183C-601	38.312908	-77.627335	Spotsylvania	Chancellorsville	iron	open pit	unknown	unpublished MRV base map
183C-602	38.315342	-77.630020	Spotsylvania	Chancellorsville	iron	open pit	unknown	unpublished MRV base map
183C-701	38.279915	-77.719139	Spotsylvania	Chancellorsville	gold	prospect pit	Marsden	53, 58, 5, 28
183C-801	38.266659	-77.681213	Spotsylvania	Chancellorsville	gold	prospect pit	Quaker	53, 58, 41, 5, 28
183C-901	38.288692	-77.653107	Spotsylvania	Chancellorsville	gold	prospect pit	Furnace	53, 58



Water-filled, open shaft at the old Wilderness mine, Orange County (from Sweet, 1980).

Small block house and conerte foundations at the plant site of the Wilderness gold mine, Orange County (photograph by P. C. Sweet, 1969).

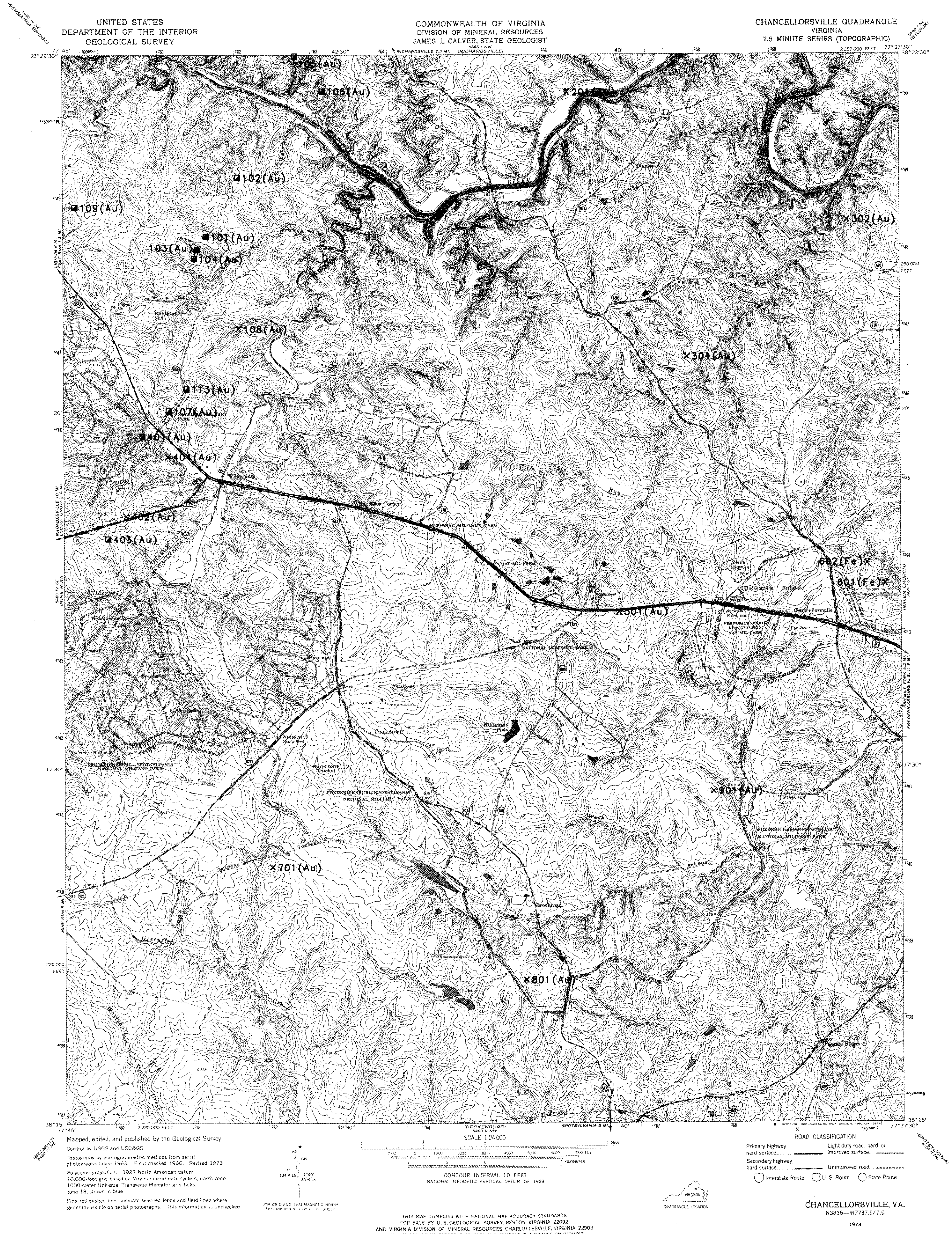

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
COMMONWEALTH OF VIRGINIA
DIVISION OF MINERAL RESOURCES
JAMES L. CALVER, STATE GEOLOGIST
CHANCELLORSVILLE QUADRANGLE
VIRGINIA
7.5 MINUTE SERIES (TOPOGRAPHIC)
105(Au)
106(Au)
201(Au)
102(Au)
109(Au)
101(Au)
103(Au)
104(Au)
302(Au)
108(Au)
301(Au)
113(Au)
107(Au)
401(Au)
404(Au)
402(Au)
403(Au)
602(Fe)
601(Fe)
501(Au)
901(Au)
701(Au)
801(Au)
Wilderness Corner
NATIONAL MILITARY PARK
Chancellorsville
Cookstown
Hamiltons Thicket
FREDERICKSBURG-SPOTSYLVANIA NATIONAL MILITARY PARK
Brockroad
Waltonian Pond
Paynes Store
Mapped, edited, and published by the Geological Survey
Control by USGS and USC&GS
Topography by photogrammetric methods from aerial photographs taken 1963. Field checked 1966. Revised 1973
Polyconic projection. 1927 North American datum
10,000-foot grid based on Virginia coordinate system, north zone
1000-meter Universal Transverse Mercator grid ticks, zone 18, shown in blue
Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked
UTM GRID AND 1973 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET
SCALE 1:24 000
CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929
THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, RESTON, VIRGINIA 22092
AND VIRGINIA DIVISION OF MINERAL RESOURCES, CHARLOTTESVILLE, VIRGINIA 22903
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST
QUADRANGLE LOCATION
ROAD CLASSIFICATION
Primary highway, hard surface
Light-duty road, hard or improved surface
Secondary highway, hard surface
Unimproved road
Interstate Route
U. S. Route
State Route
CHANCELLORSVILLE, VA.
N3815—W7737.5/7.5
1973
AMS 5460 I SW—SERIES V834

Table 25. Metallic mines, prospects, and occurrences in Salem Church 7.5-minute quadrangle.

LOCALITY	LATITUDE	LONGITUDE	COUNTY	QUADRANGLE	PRINCIPAL COMMODITY	TYPE OF OPENING	NAME	REFERENCES
183D-101	38.374336	-77.610558	Stafford	Salem Church	gold	shaft	Monroe	53, 58, 27, 63, 28, 52, 7
183D-102	38.374660	-77.606667	Stafford	Salem Church	gold	open pit	Elliot Farm	53, 58, 39
183D-103	38.367195	-77.603584	Stafford	Salem Church	gold	shaft	Rattlesnake	53, 58, 7, 63
183D-104	38.366642	-77.604362	Stafford	Salem Church	gold	shaft	Rattlesnake	53, 58, 7, 63
183D-105	38.368568	-77.601898	Stafford	Salem Church	gold	shaft	Rattlesnake	53, 58, 7, 63
183D-106	38.366173	-77.603287	Stafford	Salem Church	gold	shaft	Eagle	56, 53, 58, 27, 7, 39, 63
183D-107	38.372612	-77.596542	Stafford	Salem Church	gold	shaft	Pris-King	53, 58, 39
183D-108	38.371490	-77.597038	Stafford	Salem Church	gold	shaft	Pris-King	53, 58, 39
183D-109	38.369797	-77.599197	Stafford	Salem Church	gold	prospect pit	prospect pit A	53, 58
183D-110	38.352562	-77.594856	Stafford	Salem Church	gold	open pit	Wise Farm	53, 58, 39
183D-111	38.369190	-77.583580	Stafford	Salem Church	gold	prospect pit	MacDonald	53, 58, 39, 5, 53
183D-112	38.361401	-77.584671	Stafford	Salem Church	gold	shaft	Horse Pen	53, 58, 27, 7, 28, 63
183D-113	38.360394	-77.586319	Stafford	Salem Church	gold	shaft	Horse Pen	53, 58, 27, 7, 28, 63
183D-114	38.357101	-77.621460	Spotsylvania	Salem Church	gold	shaft	United States	56, 53, 58, 32, 41, 27, 49, 63, 42, 7, 28
183D-115	38.346497	-77.610695	Spotsylvania	Salem Church	zinc	prospect pit	Pruitt #4	56, 28
183D-201	38.365467	-77.573830	Stafford	Salem Church	gold	prospect pit	Lee	53, 58, 27
183D-202	38.343220	-77.576073	Spotsylvania	Salem Church	gold	open pit	Ramsey	53, 58, 27, 5, 28
183D-203	38.336872	-77.582039	Spotsylvania	Salem Church	gold	open pit	Bell	53, 58, 27, 28
183D-401	38.332497	-77.609825	Spotsylvania	Salem Church	gold	open pit	Gardiner	53, 58, 27, 28, 7
183D-402	38.329750	-77.589104	Spotsylvania	Salem Church	gold	open pit	Smith	53, 58, 27, 28
183D-501	38.323742	-77.565613	Spotsylvania	Salem Church	gold	open pit	Mott	53, 58, 7, 28

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DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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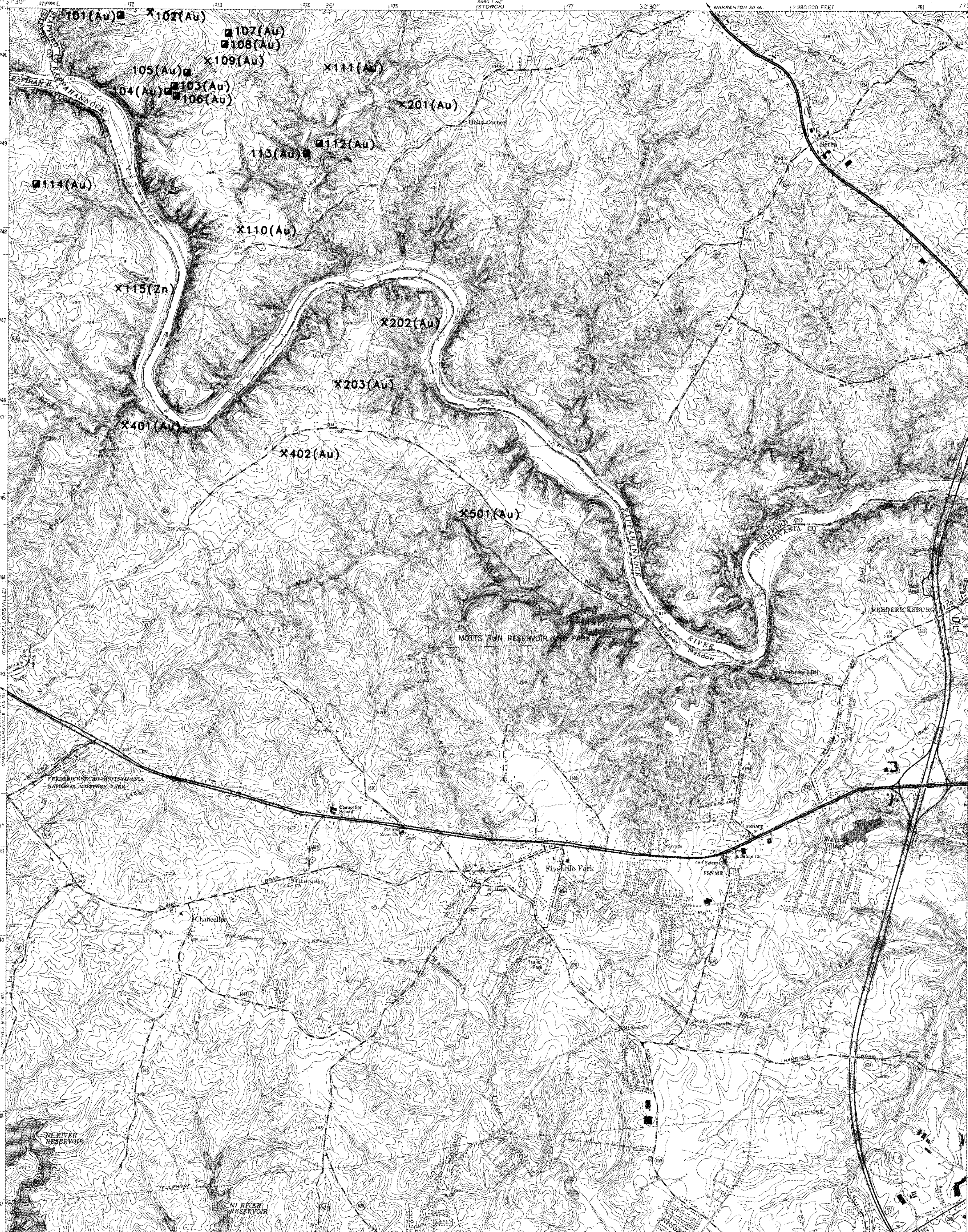
DIVISION OF MINERAL RESOURCES

SALEM CHURCH QUADRANGLE
VIRGINIA
7.5 MINUTE SERIES (TOPOGRAPHIC)



Mapped, edited, and published by the Geological Survey

Control by USGS and NOS/NOAA

Topography by photogrammetric methods from aerial photographs taken 1963. Field checked 1966

Supersedes Army Map Service map dated 1943

Polyconic projection. 10,000-foot grid ticks based on Virginia coordinate system, north zone

1000-meter Universal Transverse Mercator grid ticks, zone 18, shown in blue

1927 North American Datum

To place on the predicted North American Datum 1983 move the projection lines 9 meters south and 25 meters west as shown by dashed corner ticks

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked

There may be private inholdings within the boundaries of the National or State reservations shown on this map

UTM GRID AND 1984 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, RESTON, VIRGINIA 22092
AND VIRGINIA DIVISION OF MINERAL RESOURCES, CHARLOTTESVILLE, VIRGINIA 22903
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

Revisions shown in purple and woodland compiled in cooperation with Commonwealth of Virginia agencies from aerial photographs taken 1981 and other sources. This information not field checked
Map edited 1984

ROAD CLASSIFICATION

Heavy-duty — Light-duty
Medium-duty — Unimproved dirt
Interstate Route — U. S. Route — State Route

SALEM CHURCH, VA.
38077-C5-TF-024

1966
PHOTOREVISED 1984
DMA 5460 I SE–SERIES V834

PUBLICATION 147

Table 26. Metallic mines, prospects, and occurrences in Germanna Bridge 7.5-minute quadrangle.

LOCALITY	LATITUDE	LONGITUDE	COUNTY	QUADRANGLE	PRINCIPAL COMMODITY	TYPE OF OPENING	NAME	REFERENCES
184A-601	38.419643	-77.751617	Culpeper	Germanna Bridge	gold	open pit	Field's	58, 53, 27

UNITED STATES
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COMMONWEALTH OF VIRGINIA
DIVISION OF MINERAL RESOURCES
JAMES L. CALVER, STATE GEOLOGIST

GERMANNA BRIDGE QUADRANGLE
VIRGINIA
7.5 MINUTE SERIES (TOPOGRAPHIC)

Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1966. Field checked 1968
Supersedes Army Map Service map dated 1943

Polyconic projection. 1927 North American datum
10,000-foot grid based on Virginia coordinate system, north zone
1000-meter Universal Transverse Mercator grid ticks, zone 18, shown in blue

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked

SCALE 1:24000

CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. 20242
AND VIRGINIA DIVISION OF MINERAL RESOURCES, CHARLOTTESVILLE, VIRGINIA 22903
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

ROAD CLASSIFICATION

Primary highway, all weather, hard surface

Light-duty road, all weather, improved surface

Unimproved road, fair or dry weather

State Route

GERMANNA BRIDGE, VA.
N3822.5—W7745/7.5

1968

AMS 5460 IV NE—SERIES V834

SPECIAL PRINTING
Contours and woodland symbols omitted

PUBLICATION 147

Table 27. Metallic mines, prospects, and occurrences in Unionville 7.5-minute quadrangle.

LOCALITY	LATITUDE	LONGITUDE	COUNTY	QUADRANGLE	PRINCIPAL COMMODITY	TYPE OF OPENING	NAME	REFERENCES
184C-601	38.299252	-77.886871	Orange	Unionville	gold	open pit	Walnut Creek	57

UNITED STATES
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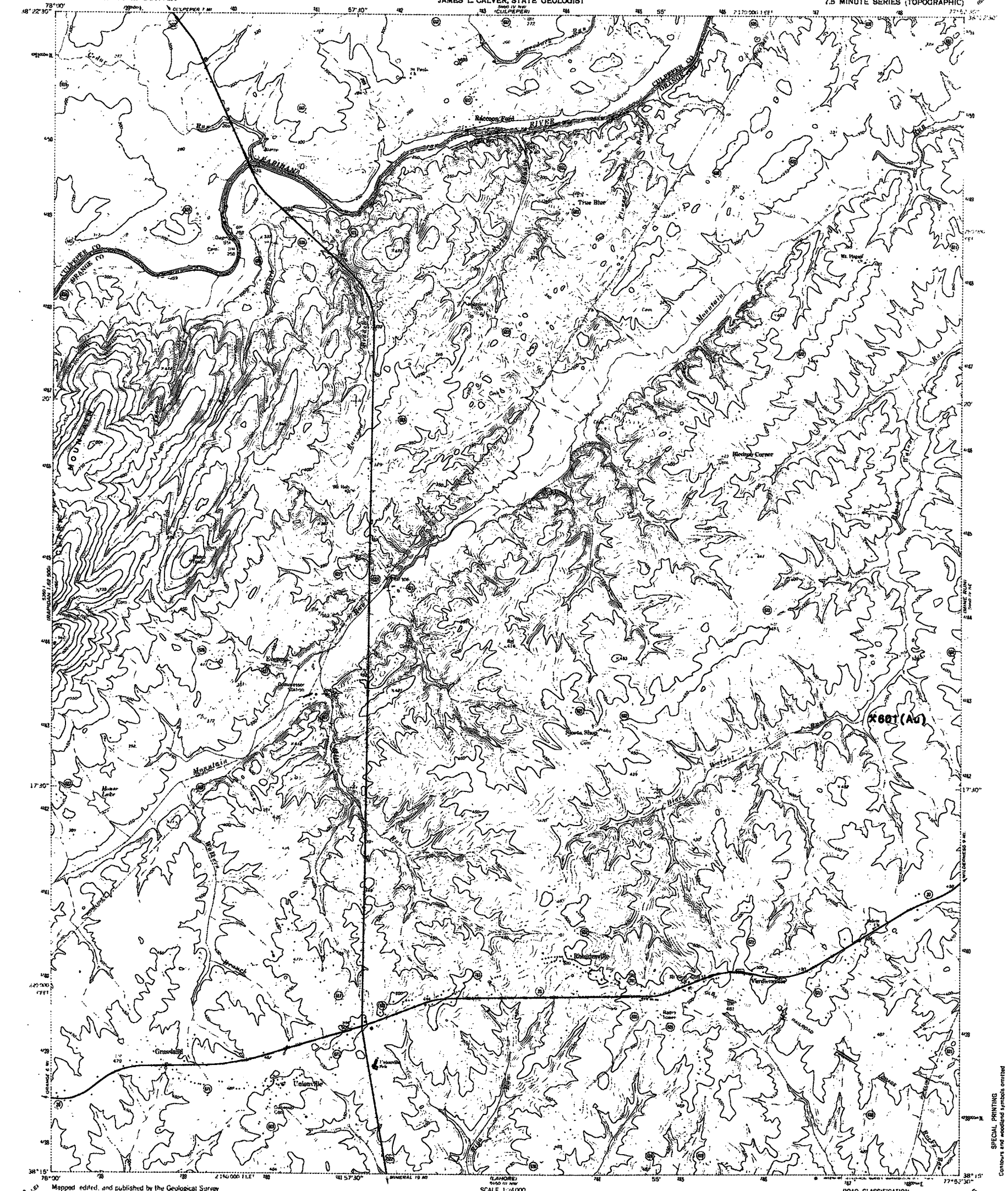
COMMONWEALTH OF VIRGINIA
DIVISION OF MINERAL RESOURCES
JAMES L. CALVER, STATE GEOLOGIST

UNIONVILLE QUADRANGLE
VIRGINIA
7.5 MINUTE SERIES (TOPOGRAPHIC)



Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1966. Field checked 1968

Superseded Army Map Service map dated 1943

Polyconic projection. 1927 North American datum

10,000-foot grid based on Virginia coordinate system, north zone

1000-meter Universal Transverse Mercator grid ticks, zone 19, shown in blue

Fine red dashed lines indicate selected fence and hedge lines where generally visible on aerial photographs. This information is not to be used

UTM GRID AND 1968 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
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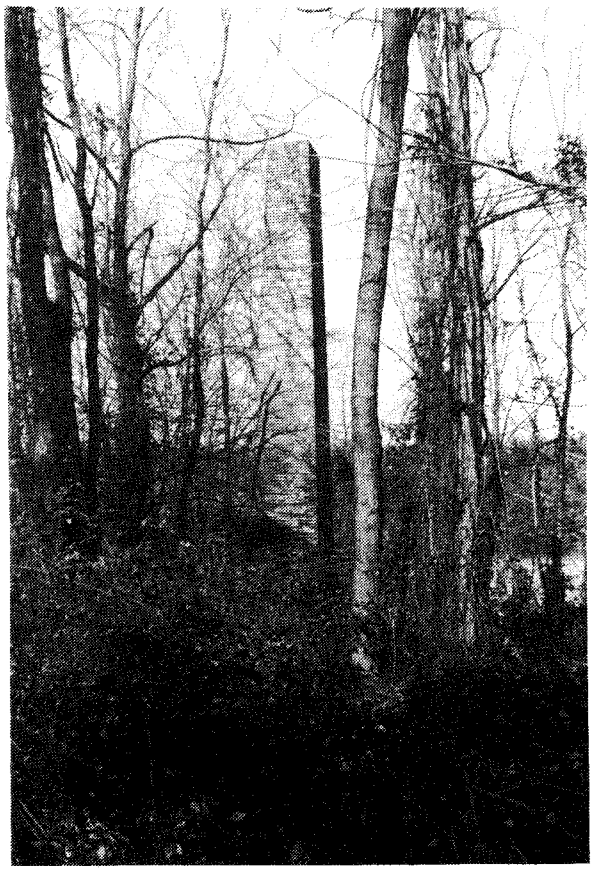
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

UNIONVILLE, VA.
N3815--W7752.5/7.5
1968
AMS 5460 IV SW-SERIES V834

Table 28. Metallic mines, prospects, and occurrences in Mine Run 7.5-minute quadrangle.

LOCALITY	LATITUDE	LONGITUDE	COUNTY	QUADRANGLE	PRINCIPAL COMMODITY	TYPE OF OPENING	NAME	REFERENCES
184D-201	38.365078	-77.800720	Orange	Mine Run	gold	prospect pit	Indian Town	58
184D-202	38.352779	-77.813599	Orange	Mine Run	gold	prospect pit	Jones	58, 27, 28, 53
184D-301	38.334980	-77.768044	Orange	Mine Run	gold	prospect pit	Orange Grove	58, 53, 27
184D-302	38.348206	-77.762024	Orange	Mine Run	gold	prospect pit	H. Gordon's	58
184D-701	38.279175	-77.863930	Orange	Mine Run	gold	open pit	Grasty Tract	58, 53, 27, 63, 28, 52
184D-702	38.279781	-77.861931	Orange	Mine Run	gold	open pit	Dickey Tract	56, 58, 57, 52, 53, 63, 27
184D-703	38.278095	-77.865028	Orange	Mine Run	gold	open pit	Old Tinder	56, 58, 53, 52, 27, 63



Brick roasting stack looking west at the Grasty mine tract, Orange County (from Sweet and Trimble, 1982).

Table 28. Metallic mines, prospects, and occurrences in Mine Run 7.5-minute quadrangle.

LOCALITY	LATITUDE	LONGITUDE	COUNTY	QUADRANGLE	PRINCIPAL COMMODITY	TYPE OF OPENING	NAME	REFERENCES
184D-201	38.365078	-77.800720	Orange	Mine Run	gold	prospect pit	Indian Town	58
184D-202	38.352779	-77.813599	Orange	Mine Run	gold	prospect pit	Jones	58, 27, 28, 53
184D-301	38.334980	-77.768044	Orange	Mine Run	gold	prospect pit	Orange Grove	58, 53, 27
184D-302	38.348206	-77.762024	Orange	Mine Run	gold	prospect pit	H. Gordon's	58
184D-701	38.279175	-77.863930	Orange	Mine Run	gold	open pit	Grasty Tract	58, 53, 27, 63, 28, 52
184D-702	38.279781	-77.861931	Orange	Mine Run	gold	open pit	Dickey Tract	56, 58, 57, 52, 53, 63, 27
184D-703	38.278095	-77.865028	Orange	Mine Run	gold	open pit	Old Tinder	56, 58, 53, 52, 27, 63

Brick roasting stack looking west at the Grasty mine tract, Orange County (from Sweet and Trimble, 1982).

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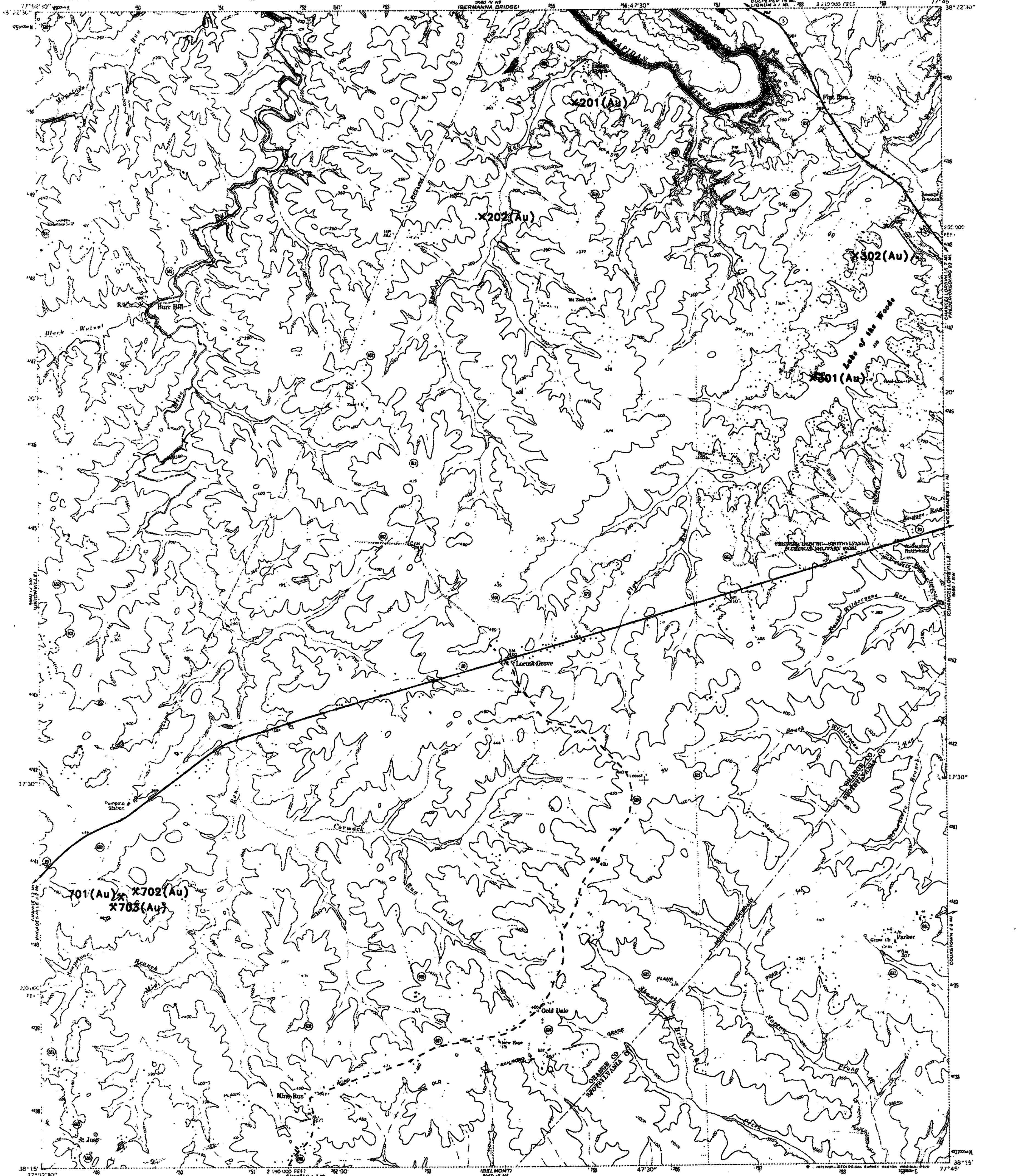
DIVISION OF MINERAL RESOURCES
JAMES L. CALVER, STATE GEOLOGIST

MINE RUN QUADRANGLE
VIRGINIA
7.5 MINUTE SERIES (TOPOGRAPHIC)



Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1966 and 1969. Field checked 1968 and 1969. Supersedes Army Map Service map dated 1943

Polyconic projection. 1927 North American datum
10,000-foot grid based on Virginia coordinate system, north zone
1000-meter Universal Transverse Mercator grid ticks, zone 18, shown in blue

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked

Revisions shown in purple compiled in cooperation with Commonwealth of Virginia agencies from aerial photographs taken 1977 and other source data. This information not field checked. Map edited 1979

SCALE 1:24000

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, RESTON, VIRGINIA 22092
AND VIRGINIA DIVISION OF MINERAL RESOURCES, CHARLOTTESVILLE, VIRGINIA 22903
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

VIRGINIA
QUADRANGLE LOCATION

ROAD CLASSIFICATION

Primary highway, all weather, hard surface	Light-duty road, all weather, improved surface
Secondary highway, all weather, hard surface	Unimproved road, fair or dry weather

○ State Route

MINE RUN, VA.
N3815—W7745/7.5

1969
PHOTOREVISED 1979
AMS 5460 IV SE—SERIES V834

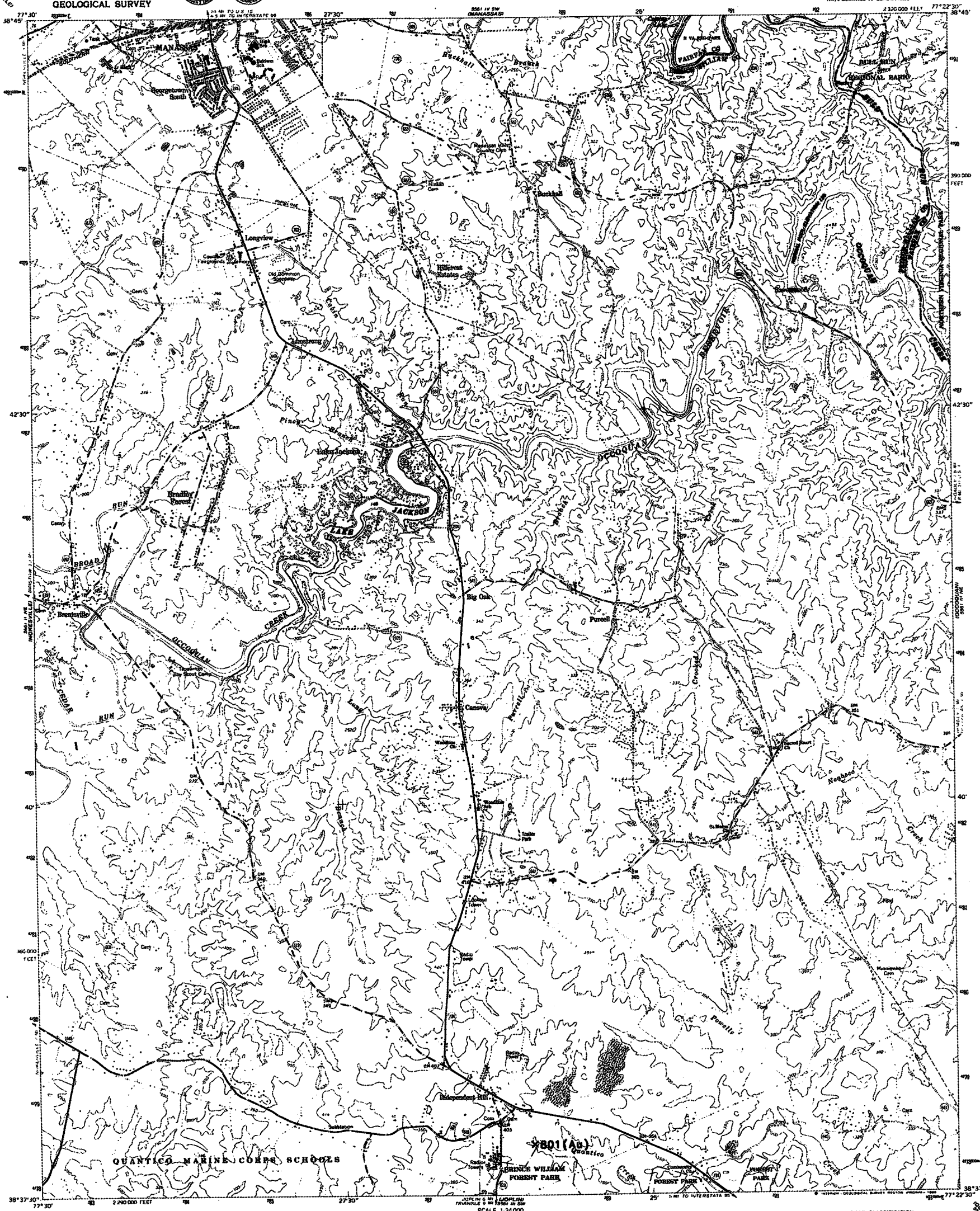
PUBLICATION 147

Table 29. Metallic mines, prospects, and occurrences in Independent Hill 7.5-minute quadrangle.

LOCALITY	LATITUDE	LONGITUDE	COUNTY	QUADRANGLE	PRINCIPAL COMMODITY	TYPE OF OPENING	NAME	REFERENCES
194B-801	38.630409	-77.432426	Prince William	Independent Hill	gold	prospect pit	Greenwood	53, 58, 27, 28

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

INDEPENDENT HILL QUADRANGLE
VIRGINIA
7.5 MINUTE SERIES (TOPOGRAPHIC)
NW/4 QUANTICO 15' QUADRANGLE



Mapped by the Army Map Service
Edited and published by the Geological Survey
Control by USGS, USC&GS, and USCE
Topography by photogrammetric methods from aerial photographs taken 1950. Field checked 1956
Revised by the Geological Survey 1966

Polyconic projection. 1927 North American datum
10,000-foot grid based on Virginia coordinate system, north zone
1000-meter Universal Transverse Mercator grid ticks, zone 18, shown in blue

To place on the predicted North American Datum 1983 move the projection lines 9 meters south and 25 meters west as shown by dashed corner ticks

There may be private inholdings within the boundaries of the National or State reservations shown on this map

UTM GRID AND 1980 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, RESTON, VIRGINIA 22092
AND VIRGINIA DIVISION OF MINERAL RESOURCES, CHARLOTTESVILLE, VIRGINIA 22903
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

Revisions shown in purple compiled by the Geological Survey in cooperation with State of Virginia agencies from aerial photographs taken 1977 and other source data. This information not field checked. Map edited 1980

Boundary lines shown in purple compiled from latest information available from the controlling authority

ROAD CLASSIFICATION
Heavy-duty — Light-duty
Medium-duty — Unimproved dirt
State Route

INDEPENDENT HILL, VA.
NW/4 QUANTICO 15' QUADRANGLE
N3837.5—7722.5/7.5

1966
PHOTOREVISED 1980
DMA 5561 II NW—SERIES V834

Table 30. Metallic mines, prospects, and occurrences in Joplin 7.5-minute quadrangle.

LOCALITY	LATITUDE	LONGITUDE	COUNTY	QUADRANGLE	PRINCIPAL COMMODITY	TYPE OF OPENING	NAME	REFERENCES
194C-602	38.572151	-77.387184	Prince William	Joplin	pyrite	prospect pit	unknown	unpublished MRV base map

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

JOPLIN QUADRANGLE
VIRGINIA
7.5 MINUTE SERIES (TOPOGRAPHIC)
SW/4 QUANTICO 15' QUADRANGLE

Mapped by the Army Map Service
Edited and published by the Geological Survey

Control by USGS, USC&GS, and USCE

Topography by photogrammetric methods from aerial photographs taken 1955. Field checked 1957.
Revised by the Geological Survey 1966

Polyconic projection. 1927 North American datum
10,000-foot grid based on Virginia coordinate system, north zone
1000-meter Universal Transverse Mercator grid ticks, zone 18, shown in blue

Revisions shown in purple compiled by the Geological Survey in cooperation with Commonwealth of Virginia agencies from aerial photographs taken 1971. This information not field checked

MN
GN
7°
13.3 MILES
1:20 000
2.7 MILES

UTM GRID AND 1971 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 KILOMETER

CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, WASHINGTON, D. C. 20242
AND VIRGINIA DIVISION OF MINERAL RESOURCES, CHARLOTTESVILLE, VIRGINIA 22903
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

VIRGINIA
QUADRANGLE LOCATION

ROAD CLASSIFICATION

Heavy duty — Light-duty
Medium-duty — Unimproved dirt
Interstate Route — U. S. Route — State Route

JOPLIN, VA.
SW/4 QUANTICO 15' QUADRANGLE
N3830—W7722.5/7.5

1966
PHOTOREVISED 1971
AMS 5561 III SW—SERIES V834

Table 31. Metallic mines, prospects, and occurrences in Quantico 7.5-minute quadrangle.

LOCALITY	LATITUDE	LONGITUDE	COUNTY	QUADRANGLE	PRINCIPAL COMMODITY	TYPE OF OPENING	NAME	REFERENCES
194D-201	38.624023	-77.301720	Prince William	Quantico	gold	prospect pit	Crawford Placers	53, 58, 28, 12, 42, 27, 41
194D-401	38.576077	-77.354050	Prince William	Quantico	pyrite	shaft	Cabin Branch	56, 44, 63, 53, 27, 46
194D-402	38.575680	-77.351601	Prince William	Quantico	pyrite	shaft	Cabin Branch	56, 44, 63, 53, 27, 46
194D-403	38.575504	-77.347305	Prince William	Quantico	pyrite	shaft	Cabin Branch	56, 44, 63, 53, 27, 46

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

QUANTICO QUADRANGLE
VIRGINIA–MARYLAND
7.5 MINUTE SERIES (TOPOGRAPHIC)
SE/4 QUANTICO 15' QUADRANGLE

Mapped by the Army Map Service
Edited and published by the Geological Survey

Control by USGS, USC&GS, and USCE

Topography by photogrammetric methods from aerial photographs taken 1950. Field checked 1956
Revised by the Geological Survey 1966

Selected hydrographic data compiled from USC&GS Charts 559 (1965) and 560 (1966). This information is not intended for navigational purposes

Polyconic projection. 1927 North American datum
10,000 foot grids based on Virginia coordinate system, north zone, and Maryland coordinate system
1000 meter Universal Transverse Mercator grid ticks, zone 18, shown in blue

Red tint indicates area in which only landmark buildings are shown

Boundary lines shown in purple compiled from latest information available from the controlling authority

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929
DEPTH CURVES AND SOUNDINGS IN FEET—DATUM IS MEAN LOW WATER

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, RESTON, VIRGINIA 22092
AND VIRGINIA DIVISION OF MINERAL RESOURCES, CHARLOTTESVILLE, VIRGINIA 22903
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

Revisions shown in purple compiled in cooperation with Commonwealth of Virginia agencies from aerial photographs taken 1977 and other source data. This information not field checked. Map edited 1978

Purple tint indicates extension of urban areas

ROAD CLASSIFICATION

Heavy-duty — Light-duty
Medium-duty — Unimproved dirt
Interstate Route — U. S. Route — State Route

QUANTICO, VA.—MD.
SE/4 QUANTICO 15' QUADRANGLE
N3830—W7715/7.5

1966
PHOTOREVISED 1978
AMS 5561 III SE—SERIES V834

PUBLICATION 147

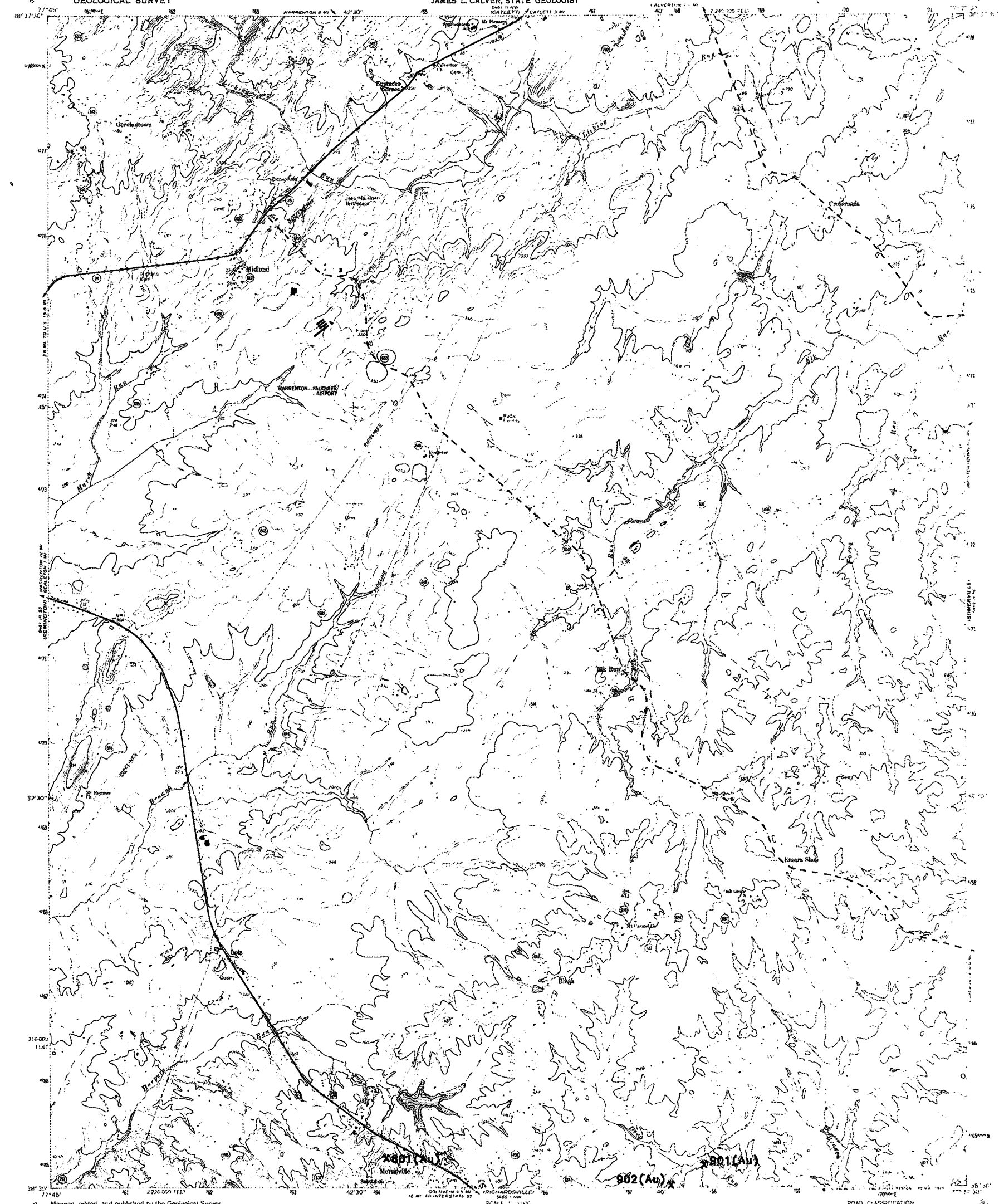
Table 32. Metallic mines, prospects, and occurrences in Midland 7.5-minute quadrangle.

LOCALITY	LATITUDE	LONGITUDE	COUNTY	QUADRANGLE	PRINCIPAL COMMODITY	TYPE OF OPENING	NAME	REFERENCES
195C-801	38.503151	-77.704086	Fauquier	Midland	gold	open pit	Embrey	53, 58, 40, 27
195C-901	38.502403	-77.660767	Fauquier	Midland	gold	open pit	Franklin	56, 53, 58, 27, 28, 42, 7
195C-902	38.500248	-77.665298	Fauquier	Midland	gold	open pit	Waterman	53, 58, 40, 28

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

COMMONWEALTH OF VIRGINIA
DIVISION OF MINERAL RESOURCES
JAMES L. CALVER, STATE GEOLOGIST

MIDLAND QUADRANGLE
VIRGINIA - FAUQUIER CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)



Mapped, edited and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1965. Field checked 1967

Supersedes Army Map Service map dated 1943

Polyconic projection. 1927 North American datum

10 000 foot grid based on Virginia coordinate system, north zone

1000 meter Universal Transverse Mercator grid ticks, zone 18, shown in blue

Fine red dashed lines indicate selected fence and hedge lines where generally visible on aerial photographs. This information is unchecked

Revisions shown in purple compiled in cooperation with Commonwealth of Virginia agencies from aerial photographs taken 1977 and other source data. This information not field checked. Map edited 1978

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, RESTON, VIRGINIA 22092
AND VIRGINIA DIVISION OF MINERAL RESOURCES, CHARLOTTESVILLE, VIRGINIA 22903
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

ROAD CLASSIFICATION

Primary highway, hard surface — all weather
Light-duty road, all weather, unimproved surface
Secondary highway, hard surface — all weather
Unimproved road, fair or dry weather

U. S. Route
State Route

MIDLAND, VA.

N 38°30' — W 77°37.5'

1967
PHOTOREVISED 1978
AMS 6847 II SW SERIES V834

Table 33. Metallic mines, prospects, and occurrences in Falls Church 7.5-minute quadrangle.

LOCALITY	LATITUDE	LONGITUDE	COUNTY	QUADRANGLE	PRINCIPAL COMMODITY	TYPE OF OPENING	NAME	REFERENCES
204B-101	38.965321	-77.215935	Fairfax	Falls Church	gold	open pit	Bull Neck (Kirk)	53, 58, 61, 62, 24
204B-201	38.958710	-77.205864	Fairfax	Falls Church	gold	occurrence	Scott Run	unpublished MRV base map

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

FALLS CHURCH QUADRANGLE
VIRGINIA–MARYLAND
7.5 MINUTE SERIES (TOPOGRAPHIC)

Mapped, edited, and published by the Geological Survey

Control by USGS, USC&GS, USCE, NCPS, and WSSC

Topography by photogrammetric methods from aerial photographs taken 1955. Field checked 1956. Revised 1965

Polyconic projection. 1927 North American datum
10,000-foot grids based on Virginia coordinate system, north zone, and Maryland coordinate system
1000-meter Universal Transverse Mercator grid ticks, zone 18, shown in blue

To place on the predicted North American Datum 1983 move the projection lines 8 meters south and 26 meters west as shown by dashed corner ticks

There may be private inholdings within the boundaries of the National or State reservations shown on this map

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked

UTM GRID AND 1979 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

Red tint indicates areas in which only landmark buildings are shown

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, RESTON, VIRGINIA 22092
AND VIRGINIA DIVISION OF MINERAL RESOURCES, CHARLOTTESVILLE, VIRGINIA 22903
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

Revisions shown in purple compiled in cooperation with State of Virginia agencies from aerial photographs taken 1977 and other source data. This information not field checked. Map edited 1979

Boundary lines shown in purple compiled from latest information available from the controlling authority

Purple tint indicates extension of urban areas

ROAD CLASSIFICATION

Heavy-duty · Light-duty
Medium-duty · Unimproved dirt
Interstate Route · U. S. Route · State Route

FALLS CHURCH, VA.–MD.
N3852.5—W7707.5/7.5

1965
PHOTOREVISED 1979
AMS 5561 I NW—SERIES V834

PUBLICATION 147

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF MINES, MINERALS AND ENERGY
DIVISION OF MINERAL RESOURCES

PUBLICATION 147
METALLIC MINES, PROSPECTS, AND OCCURRENCES
IN THE GOLD-PYRITE BELT OF VIRGINIA
PLATE I

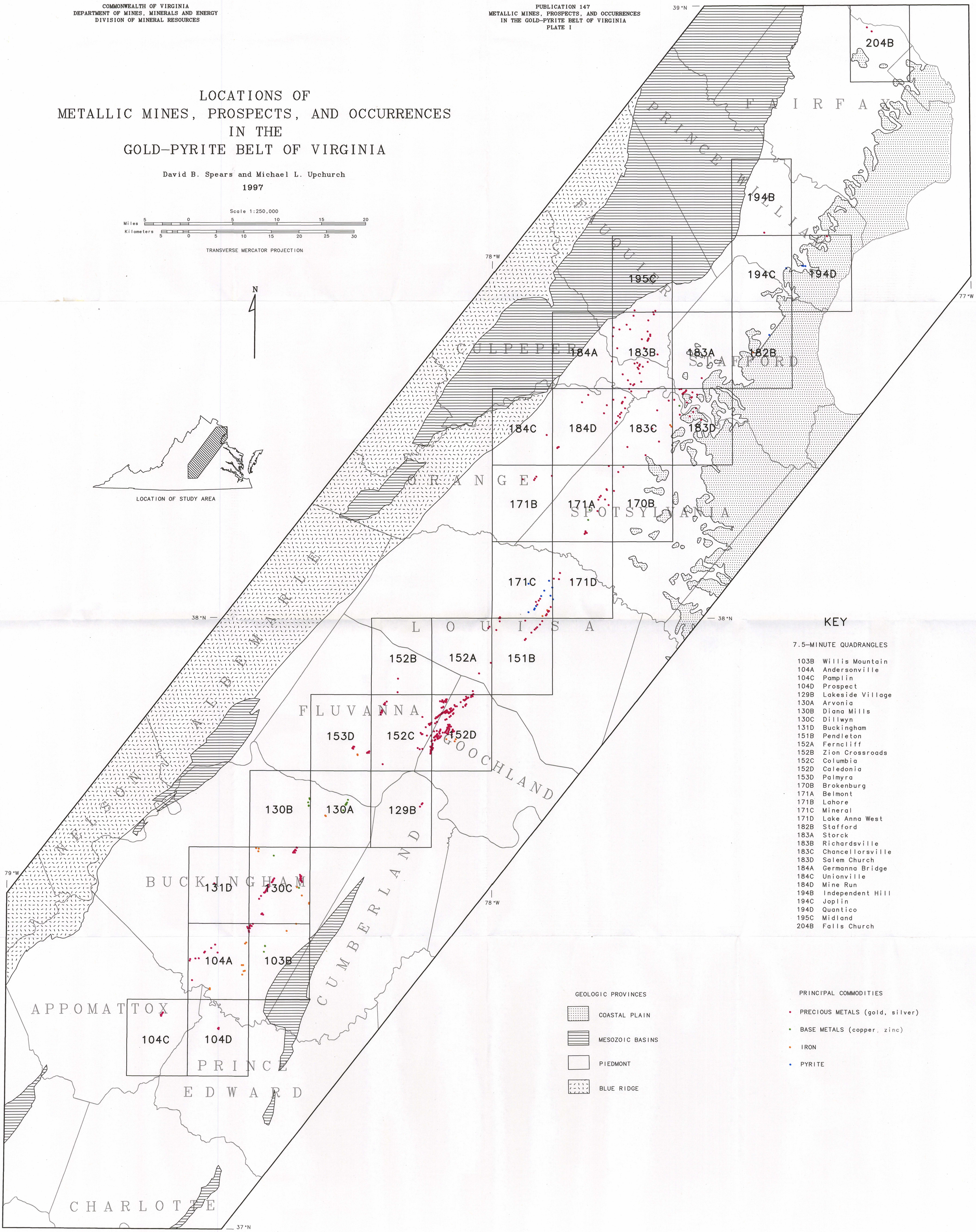
LOCATIONS OF METALLIC MINES, PROSPECTS, AND OCCURRENCES IN THE GOLD-PYRITE BELT OF VIRGINIA

David B. Spears and Michael L. Upchurch

1997

Scale 1:250,000

Miles 5 0 5 10 15 20

Kilometers 5 0 5 10 15 20 25 30

TRANSVERSE MERCATOR PROJECTION